OCCUPATIONS OF EMPLOYEES
FOOD AND KINDRED PRODUCTS (SIC 20)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	2,400	8.12	5
Professional Occupations	630	2.13	N/A
Engineers	70	0.24	N/A
Chemist	80	0.27	30
Purchasing Agent/Buyer	100	0.34	14
Accountants/Auditors	280	0.95	10
All Other Professional Workers	100	0.34	N/A
Technical Occupations	230	0.78	N/A
Biological Science Technician	160	0.54	35
All Other Technical Workers	70	0.24	N/A
Service Occupations	1,180	3.99	N/A
Janitors, Porters, and Cleaners	980	3.32	9
All Other Service Workers	200	0.68	N/A
Maintenance and Production Occupations	19,500	66.01	N/A
Supervisor, Nonworking	990	3.35	12
Mechanic, Automotive	400	1.35	14
Mechanic, Maintenance	450	1.52	11
Vending Machine Service/Repairer	70	0.24	23
All Other Mechanics and Repairers	30	0.10	N/A
Truck Driver	790	2.67	9
Cook or Cooker Operator	280	0.95	13
Delivery/Route Worker	2,770	9.38	9
Electrician	130	0.44	24
Industrial Truck Operator	600	2.03	18
Inspector	100	0.34	20
Machinist	90	0.30	16
Maintenance Repairer, General Utility	720	2.44	17
Helper, Trades	70	0.24	13
Mixer	510	1.73	12
Order Filler	620	2.10	17
Oven Operator	150	0.51	11
Production Packager	4,430	15.00	8
Stationary Boiler Firer	20	0.07	33
Baker	210	0.71	18
Baker Helper	330	1.12	17
Boner, Meat	110	0.37	29
Casing Finisher	290	0.98	11
Cooler Room Worker, Meat	10	0.03	29
Dairy Processing Equipment Operator	360	1.22	14
Dividing Machine Operator	130	0.44	16
Flavor Room Worker	130	0.44	33
Ingredient Scaler	60	0.20	16
Meat Grinder	100	0.34	16

SIC 20 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Skin Peeling Machine Operator	30	0.10	23
Smoker	40	0.14	12
Tester	130	0.44	15
Cutting Machine Operator, Food	300	1.02	18
Fish Cleaner/Butcher	620	2.10	25
Cannery Worker	440	1.49	20
Food Shaper, Hand	120	0.41	31
Depositor,Food	100	0.34	18
Washer/Separator, Food	70	0.24	34
Grader, Food/Skins	30	0.10	27
All Other Skilled Workers	360	1.22	N/A
All Other Semiskilled Workers	960	3.25	N/A
All Other Laborers	1,280	4.33	N/A
Clerical Occupations	3,610	12.22	N/A
Computer Operator	40	0.14	8
Keypunch Operator	60	0.20	17
Accounting Clerk	360	1.22	9
Bookkeeper, Hand	260	0.88	18
General Clerk, Office	1,010	3.42	5
Order Clerk	120	0.41	14
Secretary	430	1.46	13
Switchboard Operator	10	0.03	33
Typist	20	0.07	23
All Other Office Clerical Workers	110	0.37	N/A
Shipping Packer	510	1.73	15
Shipping/Receiving Clerk	430	1.46	11
Weigher, Record Keeping	40	0.14	31
Stock Clerk	190	0.64	22
All Other Plant Clerical Workers	20	0.07	N/A
Sales Occupations	1,990	6.74	N/A
Sales Representatives	960	3.25	11
Sales Clerk	1,030	3.49	14
TOTAL	29,540	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

RANKED OCCUPATIONAL EMPLOYMENT IN FOOD AND KINDRED PRODUCTS INDUSTRY

SIC 20

	OCCUPATION	EMPLOYMENT
1.	Production Packager	4,430
2.	Delivery/Route Worker	2,770
3.	Managers and Officers	2,400
4.	All Other Unskilled Workers	1,280
5.	Sales Clerk	1,030
6.	General Clerk, Office	1,010
7.	Supervisor, Nonworking	990
8.	Janitors, Porters, and Cleaners	980
9.	Sales Representative	960
10.	All Other Semiskilled Workers	960
		16,810

These 10 occupations make up 57% of total industry employment.

OCCUPATIONS OF EMPLOYEES
MEAT PRODUCTS (SIC 201)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	150	5.54	6
Professional Occupations	20	0.74	N/A
Technical Occupations	10	0.37	N/A
Service Occupations	40	1.48	N/A
Maintenance and Production Occupations	2,100	77.49	N/A
Supervisor, Nonworking	110	4.06	5
Mechanic, Maintenance	30	1.11	14
Truck Driver	60	2.21	26
Cook/Cooker	20	0.74	27
Delivery and Route Worker	130	4.80	15
Industrial Truck Operator	20	0.74	18
Maintenance Repairer, General Utility	30	1.11	18
Mixer	30	1.11	14
Order Filler	80	2.95	15
Production Packager	450	16.61	16
Boner, Meat	110	4.06	29
Casing Finisher	290	10.70	11
Cooler Room Worker, Meat	10	0.37	29
Meat Grinder	100	3.69	16
Pumper	70	2.58	17
Skin Peeling Machine Operator	30	1.11	23
Smoker	40	1.48	12
Cutting Machine Operator, Food	20	0.74	35
All Other Semiskilled Workers	390	14.39	N/A
All Other Unskilled Workers	80	2.95	N/A
Clerical Occupations	260	9.59	N/A
Accounting Clerk	30	1.11	11
Bookkeeper, Hand	40	1.48	11
General Clerk	70	2.58	14
Secretary	10	0.37	22
Shipping/Packer	80	2.95	15
Shipping/Receiving Clerk	30	1.11	12
Sales Occupations	130	4.80	N/A
TOTAL	2,710	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
DAIRY PRODUCTS (SIC 202)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	790	14.21	13
Professional Occupations	110	1.98	N/A
Engineers	10	0.18	N/A
Accountants/Auditors	60	1.08	10
All Other Professional Workers	40	0.72	N/A
Technical Occupations	170	3.06	N/A
Biological Science Technician	120	2.16	47
All Other Technicians	50	0.90	N/A
Service Occupations	200	3.60	N/A
Maintenance and Production Occupations	3,110	55.94	N/A
Supervisor, Nonworking	140	2.52	11
Mechanic, Automotive	200	3.60	23
Truck Driver	190	3.42	25
Delivery and Route Workers	880	15.83	17
Maintenance Repairer, General Utility	120	2.16	32
Production Packager	300	5.40	19
Dairy Processing Equipment Operator	360	6.47	14
Flavor Room Worker	130	2.34	33
Tester	50	0.90	24
All Other Skilled Workers	90	1.62	N/A
All Other Semiskilled Workers	610	10.97	N/A
All Other Unskilled Workers	40	0.72	N/A
Clerical Occupations	860	15.47	N/A
Computer Operator	30	0.54	1
Accounting Clerk	100	1.80	22
General Clerk	310	5.58	8
Secretary	170	3.06	28
All Other Office Clerical Workers	130	2.34	N/A
Shipping/Receiving Clerk	120	2.16	23
Sales Occupations	320	5.76	N/A
TOTAL	5,560	100.00	N/A

N/A Relative Error Not Available
Note: May not add to totals due to rounding

OCCUPATIONS OF EMPLOYEES
BAKERY PRODUCTS (SIC 205)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	280	4.43	6
Professional Occupations	30	0.47	N/A
Service Occupations	390	6.17	N/A
Janitors, Porters, and Cleaners	370	5.85	7
All Other Service Workers	20	0.32	N/A
Maintenance and Production Occupations	4,020	63.61	N/A
Supervisor, Nonworking	180	2.85	20
Mechanic, Automotive	70	1.11	29
Mechanic, Maintenance	120	1.90	30
Truck Driver	180	2.85	15
Delivery and Route Workers	860	13.61	21
Maintenance Repairer, General Utility	90	1.42	25
Mixer	200	3.16	15
Order Filler	200	3.16	34
Oven Operator	150	2.37	11
Production Packager	740	11.71	17
Baker	210	3.32	18
Baker Helper	330	5.22	17
Dividing Machine Operator	130	2.06	16
Ingredient Scaler	60	0.95	16
Cutting Machine Operator, Food	90	1.42	28
Food Shaper, Hand	110	1.74	34
Depositor, Food	60	0.95	24
All Other Skilled Workers	90	1.42	N/A
All Other Semiskilled Workers	60	0.95	N/A
All Other Skilled Workers	90	1.42	N/A
Clerical Occupations	700	11.08	N/A
General Clerk	270	4.27	9
Secretary	30	0.47	20
Shipping Packer	300	4.75	21
Shipping/Receiving Clerk	100	1.58	32
Sales Occupations	900	14.24	N/A
Sales Representatives	150	2.37	35
Sales Clerk	750	11.87	16
TOTAL	6,320	100.00	N/A

N/A Relative Error Not Available
Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
BEVERAGES (SIC 208)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	270	8.77	10
Professional Occupations	30	0.97	N/A
Accountants and Auditors	20	0.65	15
All Other Professional Workers	10	0.32	N/A
Technical Occupations	20	0.65	N/A
Service Occupations	60	1.95	N/A
Janitors, Porters, & Cleaners	40	1.30	12
All Other Service Workers	20	0.65	N/A
Maintenance and Production Occupations	2,120	68.83	N/A
Supervisor, Nonworking	140	4.55	16
Mechanic, Automotive	60	1.95	14
Mechanic, Maintenance	20	0.65	30
Vending Machine Servicer/Repairer	70	2.27	23
Truck Driver	40	1.30	26
Delivery and Route Workers	700	22.73	11
Industrial Truck Operator	110	3.57	11
Inspector	30	0.97	33
Maintenance Repairer, General Utility	30	0.97	18
Mixer	40	1.30	19
Order Filler	40	1.30	29
Production Packager	440	14.29	9
Tester	30	0.97	25
All Other Skilled Workers	40	1.30	N/A
All Other Semiskilled Workers	10	0.32	N/A
All Other Unskilled Workers	320	10.39	N/A
Clerical Occupations	370	12.01	N/A
Keypunch Operator	20	0.65	28
Accounting Clerk	60	1.95	13
Bookkeeper, Hand	20	0.65	27
General Clerk	120	3.90	12
Secretary	20	0.65	20
Typist	20	0.65	23
All Other Office Clerical Workers	40	1.30	N/A
Shipping/Receiving Clerk	60	1.95	20
All Other Plant Clerical Workers	10	0.32	N/A
Sales Occupations	210	6.82	N/A
Sales Representatives	200	6.49	21
All Other Sales Workers	10	0.32	N/A
TOTAL	3,080	100.00	N/A

N/A Relative Error Not Available   Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISC. FOODS & KINDRED PRODUCTS (SIC 209)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	400	7.81	4
Professional Occupations	180	3.52	N/A
Engineers	10	0.20	N/A
Chemist	30	0.59	18
Purchasing Agent/Buyer	50	0.98	14
Accountants/Auditors	60	1.17	12
All Other Professional Workers	30	0.59	N/A
Technical Occupations	30	0.59	N/A
Biological Science Technicians	20	0.39	22
All Other Technicians	10	0.20	N/A
Service Occupations	140	2.73	N/A
Maintenance and Production Occupations	3,630	70.90	N/A
Supervisor, Nonworking	120	2.34	7
Mechanic, Maintenance	40	0.78	25
Truck Driver	150	2.93	24
Cook/Cooker	80	1.56	25
Delivery and Route Workers	130	2.54	23
Industrial Truck Operator	70	1.37	12
Inspector	40	0.78	23
Machinist	50	0.98	22
Maintenance Repairer, General Utility	110	2.15	10
Helper, Trades	60	1.17	6
Mixer	100	1.95	27
Order Filler	40	0.78	33
Production Packager	1,330	25.98	8
Drier Operators	40	0.78	40
Tester	10	0.20	47
Cutting Machine Operator, Food	120	2.34	12
Fish Cleaner/Butcher	620	12.11	25
Depositor, Food	40	0.78	29
All Other Skilled Workers	50	0.98	N/A
All Other Semiskilled Workers	270	5.27	N/A
All Other Unskilled Workers	160	3.13	N/A
Clerical Occupations	580	11.33	N/A
Accounting Clerk	60	1.17	9
Bookkeeper, Hand	60	1.17	16
General Clerk	80	1.56	13
Order Clerk	40	0.78	17
Secretary	100	1.95	14
All Other Office Clerical Workers	70	1.37	N/A
Shipping Packer	30	0.59	29

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Shipping/Receiving Clerk	90	1.76	19
Stock Clerk, Storeroom	30	0.59	23
All Other Plant Clerical Workers	20	0.39	N/A
Sales Occupations	160	3.13	N/A
Sales Representatives	150	2.93	21
All Other Sales Workers	10	0.20	N/A
TOTAL	5,120	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
TEXTILE MILL PRODUCTS (SIC 22)

Reference Date April 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,290	4.66	7
Professional Occupations	770	2.78	N/A
Industrial Engineer	60	0.22	15
Mechanical Engineer	50	0.18	11
All Other Engineers	40	0.14	12
Chemist	90	0.32	10
Life Scientist	20	0.07	N/A
Systems Analyst, EDP	50	0.18	31
Purchasing Agent/Buyer	70	0.25	11
Accountants/Auditors	130	0.47	10
Nurse, Professional	10	0.04	21
Personnel/Labor Relations Specialist	50	0.18	12
Designer	100	0.36	23
All Other Professional Workers	100	0.36	N/A
Technical Occupations	430	1.55	N/A
Computer Programmer	60	0.22	17
Engineering Technicians	60	0.22	13
Colorist	90	0.32	15
All Other Science Technicians	150	0.54	10
All Other Technicians	70	0.25	23
Service Occupations	510	1.84	N/A
Supervisor, Nonworking Service	50	0.18	30
Janitors, Porters, and Cleaners	290	1.05	7
Guards and Doorkeepers	110	0.40	18
All Other Service Workers	60	0.22	N/A
Maintenance and Production Occupations	21,000	75.81	N/A
Supervisor, Nonworking	1,010	3.65	5
Mechanic, Maintenance	260	0.94	13
Knitting Machine Fixer	160	0.58	14
Loom Fixer	460	1.66	15
Section Repairer and Setter	230	0.83	13
Mechanic, Sewing Machine	30	0.11	20
All Other Mechanics and Repairers	90	0.32	N/A
Presser, Machine	90	0.32	30
Truck Driver	100	0.36	11
Carpenter	60	0.22	7
Drawer-In, Hand	60	0.22	19
Electrician	140	0.51	9
Industrial Truck Operator	220	0.79	9
Inspector	630	2.27	13
Instructor, Apparel & Textile Mfg.	10	0.04	13
Machinist	140	0.51	11

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Maintenance Repairer, General Utility	260	0.94	12
Helper, Trades	120	0.43	14
Millwright	90	0.32	20
Oiler	70	0.25	17
Order Filler	270	0.97	15
Painter, Maintenance	30	0.11	18
Plumber/Pipefitter	50	0.18	9
Production Packager	630	2.27	15
Sewing Machine Operator, Regular Equipment, Garment	530	1.91	29
Sewing Machine Operator, Special Equipment, Garment	100	0.36	21
Spooler Operator, Automatic	50	0.18	21
Stationary Boiler Firer	100	0.36	14
Stationary Engineer	20	0.07	16
Welders/Flamecutters	20	0.07	18
Weaver	830	3.00	12
Ager Operator	60	0.22	25
Battery Loader	160	0.58	32
Beam-Dyer Operator	90	0.32	31
Beam-Warper Tender	100	0.36	19
Bleach-Range Operator	50	0.18	22
Blending-Machine Operator	160	0.58	16
Bobbin Sorter	50	0.18	24
Bobbin Winders, Machine	130	0.47	21
Braiding Machine Operator	200	0.72	11
Burler	40	0.14	33
Calender Operator, Cloth Press	130	0.47	20
Card Grinder	20	0.07	30
Card Tender	560	2.02	13
Drawing-Frame Tender	120	0.43	23
Cloth Feeder	190	0.69	20
Finishing-Range Tender	190	0.69	14
Finishing-Range Operator	130	0.47	34
Cloth Printer	70	0.25	33
Cloth Trimmer, Machine	70	0.25	27
Cloth or Carpet Winder	100	0.36	19
Coating Machine Operator	300	1.08	20
Creeler, Yarn	120	0.43	22
Cutter, Portable Machine	90	0.32	24
Doffer	290	1.05	13
Drawing-In-Machine Tender	20	0.07	21
Dresser Tender	50	0.18	20
Dye-Range Operator	190	0.69	32
Dye-Reel Operator	230	0.83	28
Dye-Tank Tender	70	0.25	1
Fuller, Textile	120	0.43	33
Harness Builder/Loom Changer	120	0.43	25
Knitting Machine Operator	400	1.44	22
Laminating Machine Operator	100	0.36	35
Loom-Winder Tender	140	0.51	24

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Mender, Cloth	190	0.69	24
Mercerizer Operator	80	0.29	22
Napper Tender	70	0.25	14
Picker Tender	100	0.36	20
Rubber-Covering-Machine Operator	40	0.14	22
Slasher Tender	100	0.36	24
Smash Hand	90	0.32	21
Spinner, Frame	550	1.99	15
Tenter-Frame Operator	280	1.01	10
Tester	120	0.43	16
Twister Tender	230	0.83	16
Warp-Tying-Machine Tender	80	0.29	17
Winder Operator, Automotive	310	1.12	11
Yarn Winder	290	1.05	31
Cloth Grader	290	1.05	17
Drier Operator, Textile	250	0.90	23
Screen/Stencil Printer/Setter	130	0.47	12
Mixer/Blender, Chemical	230	0.83	16
All Other Skilled Workers	410	1.48	19
All Other Semi-skilled Workers	3,350	12.09	N/A
All Other Unskilled Workers	2,090	7.55	N/A
Clerical Occupations	3,190	11.52	N/A
Clerical Supervisor	130	0.47	18
Bookkeeping/Billing Machine Operator	50	0.18	17
Computer Operator	60	0.22	15
Keypunch Operator	120	0.43	16
All Other Office Machine Operators	30	0.11	28
Stenographer	30	0.11	29
Accounting Clerk	180	0.65	18
Bookkeeper, Hand	70	0.25	12
File Clerk	60	0.22	21
General Clerk, Office	590	2.13	14
Order Clerk	150	0.54	21
Payroll/Timekeeping Clerk	150	0.54	7
Personnel Clerk	30	0.11	11
Procurement Clerk	40	0.14	16
Receptionist	10	0.04	32
Secretary	230	0.83	10
Statistical Clerk	60	0.22	23
Switchboard Operator	10	0.04	21
Switchboard Operator/Receptionist	50	0.18	10
Typist	100	0.36	23
All Other Office Clerical Workers	30	0.11	27
Production Clerk/Coordinator	160	0.58	15
Shipping Packer	380	1.37	11
Shipping/Receiving Clerk	240	0.87	11
Weigher, Record-Keeping	40	0.14	23
Stock Clerk	120	0.43	27
All Other Plant Clerical Workers	70	0.25	19

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sales Occupations	510	1.84	N/A
Sales Representatives	380	1.37	17
All Other Sales Occupations	130	0.47	N/A
TOTAL	27,700	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

RANKED OCCUPATIONAL EMPLOYMENT IN THE TEXTILE MILL PRODUCTS INDUSTRY

SIC 22

	OCCUPATION	EMPLOYMENT
1.	All Other Semiskilled Workers	3,350
2.	All Other Unskilled Workers	2,090
3.	Managers and Officers	1,290
4.	Supervisor, Nonworking	1,010
5.	Weaver	830
6.	Inspector	630
7.	Production Packager	630
8.	General Clerk	590
9.	Card Tender	560
10.	Spinner, Frame	550
		11,530

OCCUPATIONS OF EMPLOYEES
NARROW FABRIC MILLS (SIC 224)

Reference Date April 1977

OCCUPATION	EMPLOYMENT Number	Percent	Relative Error Percent
Managers and Officers	60	4.44	N/A
Professional Occupations	30	2.22	N/A
Engineers	10	0.74	N/A
All Other Professional Workers	20	1.48	N/A
Technical Occupations	20	1.48	N/A
Service Occupations	20	1.48	N/A
Maintenance and Production Occupations	1,080	80.00	N/A
Supervisor, Nonworking	40	2.96	2
Mechanic, Maintenance	10	0.74	18
Loom Fixer	20	1.48	21
All Other Mechanics, and Repairers	20	1.48	N/A
Inspector	30	2.22	9
Machinist	10	0.74	1
Maintenance Repairer, General Utility	20	1.48	9
Production Packager	10	0.74	7
Weaver	220	16.30	10
Beam-Warp Tenders	30	2.22	7
Bleach-Range Operator	10	0.74	1
Bobbin Winders, Machine	30	2.22	26
Braiding Machine Operator	130	9.63	1
Cloth or Carpet Winders	10	0.74	26
Doffer	60	4.44	21
Rubber-Covering Machine Operator	40	2.96	22
Tester	20	1.48	1
Winder Operator, Automatic	60	4.44	6
Mixer/Blender, Chemical	20	1.48	1
All Other Skilled Workers	60	4.44	N/A
All Other Semiskilled Workers	140	10.37	N/A
All Other Unskilled Workers	90	6.67	N/A
Clerical Occupations	120	8.89	N/A
General Clerk	30	2.22	8
Secretary	10	0.74	9
All Other Office Clerical Workers	40	2.96	N/A
Shipping Packer	20	1.48	15
Shipping/Receiving Clerk	10	0.74	11
All Other Plant Clerical Workers	10	0.74	N/A
Sales Occupations	20	1.48	21
TOTAL	1,350	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding

OCCUPATIONS OF EMPLOYEES
KNITTING MILLS (SIC 225)

Reference Date April 1977

OCCUPATION	EMPLOYMENT Number	Percent	Relative Error Percent
Managers and Officers	330	5.22	21
Professional Occupations	220	3.48	N/A
Industrial Engineer	10	0.16	23
Mechanical Engineer	10	0.16	13
All Other Engineers	10	0.16	38
Chemist	10	0.16	25
Purchasing Agent/Buyer	10	0.16	30
Accountants/Auditors	30	0.47	19
Personnel and Labor Relations Specialist	10	0.16	34
Designer	40	0.63	43
All Other Professional Workers	90	1.42	N/A
Technical Occupations	90	1.42	N/A
Computer Programmer	20	0.32	37
Engineering Technicians	20	0.32	8
Colorist	10	0.16	17
All Other Science Technicians	20	0.32	27
All Other Technicians	20	0.32	9
Service Occupations	160	2.53	N/A
Janitors, Porters, and Cleaners	80	1.27	15
Guards and Doorkeepers	30	0.47	20
Food Service Workers	10	0.16	21
All Other Service Workers	40	0.63	N/A
Maintenance and Production Occupations	4,410	69.78	N/A
Supervisor, Nonworking	210	3.32	6
Knitting Machine Fixer	150	2.37	14
Mechanic, Sewing Machine	10	0.16	19
All Other Mechanics and Repairers	70	1.11	N/A
Presser, Machine	60	0.95	37
Truck Driver	20	0.32	18
Carpenter	10	0.16	20
Electrician	20	0.32	9
Industrial Truck Operator	20	0.32	14
Inspector	130	2.06	17
Machinist	10	0.16	33
Maintenance Repairer, General Utility	30	0.47	33
Helper, Trades	40	0.63	4
Order Filler	110	1.74	22
Painter, Maintenance	10	0.16	34
Plumber/Pipefitter	10	0.16	7
Production Packager	160	2.53	32
Sewing Machine Operator Regular Equipment, Garment	530	8.39	29
Sewing Machine Operator Special Equipment, Garment	90	1.42	22
Blending Machine Operator	20	0.32	17
Card Tender	40	0.63	22

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Cloth Feeders	60	0.95	26
Cloth Trimmers, Machine	40	0.63	37
Coating Machine Operators	10	0.16	14
Cutter, Portable Machine	50	0.79	28
Hand Sewer	10	0.16	40
Knitting Machine Operators	350	5.54	24
Mender, Cloth	20	0.32	36
Tenter-Frame Operator	40	0.64	20
Tester	10	0.16	30
Cloth Grader	20	0.32	41
Folder, Hand	90	1.42	50
Mixer/Blender, Chemical	20	0.32	34
All Other Skilled Workers	230	3.64	N/A
All Other Semiskilled Workers	1,460	23.10	N/A
All Other Unskilled Workers	250	3.96	N/A
Clerical Occupations	930	14.72	N/A
Bookkeeping & Billing Machine Operator	10	0.16	23
Computer Operator	30	0.47	29
Keypunch Operator	70	1.11	26
Stenographer	10	0.16	26
Accounting Clerk	60	0.95	46
Bookkeeper, Hand	20	0.32	26
File Clerk	20	0.32	34
General Clerk	180	2.85	24
Payroll/Timekeeping Clerk	40	0.63	10
Personnel Clerk	10	0.16	19
Procurement Clerk	20	0.32	34
Secretary	30	0.47	22
Statistical Clerk	20	0.32	47
Switchboard Operator	10	0.16	39
Switchboard Operator/Receptionist	10	0.16	33
Typist	40	0.63	43
All Other Office Clerical Workers	90	1.42	N/A
Production Clerk	40	0.63	37
Shipping Packer	80	1.27	23
Shipping/Receiving Clerk	60	0.95	25
Weigher	10	0.16	33
All Other Plant Clerical Workers	70	1.11	N/A
Sales Occupations	180	2.85	N/A
Sales Representatives	90	1.42	45
All Other Sales Workers	90	1.42	N/A
TOTAL	6,320	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
TEXTILE FINISHING, EXCEPT WOOL (SIC 226)

Reference Date April 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	220	3.70	17
Professional Occupations	80	1.34	N/A
Engineers	30	0.50	N/A
Chemist	10	0.17	30
Purchasing Agent/Buyer	10	0.17	23
Accountants/Auditors	10	0.17	31
All Other Professional Workers	20	0.34	N/A
Technical Occupations	80	1.34	N/A
Colorist	50	0.84	16
All Other Technicians	30	0.50	N/A
Service Occupations	110	1.85	N/A
Janitors, Porters, and Cleaners	40	0.67	15
All Other Service Workers	70	1.18	N/A
Maintenance and Production Occupations	4,730	79.50	N/A
Supervisor, Nonworking	230	3.87	12
Mechanic,Maintenance	90	1.51	22
All Other Mechanics and Repairers	90	1.51	N/A
Truck Drivers	30	0.50	25
Carpenter	10	0.17	20
Electrician	30	0.50	21
Industrial Truck Operator	80	1.34	16
Inspector	200	3.36	29
Machinist	20	0.34	25
Maintenance Repairer, General Utility	70	1.18	25
Millwright	50	0.84	35
Oiler	10	0.17	28
Order Filler	100	1.68	30
Plumber/Pipefitter	20	0.34	22
Production Packager	200	3.36	31
Stationary Boiler Firer	50	0.84	18
Ager Operator	30	0.50	30
Bleach-Range Operator	40	0.67	28
Boil-Off Machine Operator, Cloth	20	0.34	35
Calender Operator	70	1.18	29
Cloth Feeder	80	1.34	31
Finishing-Range Tender	80	1.34	30
Dye-Reel Operator	190	3.19	32
Mercerizer Operators	40	0.67	34
Tenter-Frame Operator	180	3.03	14
Tester	20	0.34	23
Screen-Stencil Printer	30	0.50	35
Mixer/Blender,Chemical	70	1.18	29

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
All Other Skilled Workers	20	0.34	N/A
All Other Semiskilled Workers	2,210	37.14	N/A
All Other Unskilled Workers	370	6.22	N/A
Clerical Occupations	690	11.60	N/A
Clerical Supervisor	20	0.34	31
Bookkeeping/Billing Machine Operator	30	0.50	22
All Other Office Machine Operators	20	0.34	N/A
Accounting Clerk	30	0.50	26
Order Clerk	40	0.67	32
Payroll/Timekeeping Clerk	20	0.34	25
Secretary	20	0.34	23
Switchboard Operator/Receptionist	10	0.17	18
All Other Office Clerical Workers	240	4.03	N/A
Production Clerk	20	0.34	23
Shipping Packer	110	1.85	19
Shipping/Receiving Clerk	70	1.18	20
Stock Clerk, Storeroom	40	0.67	22
All Other Plant Clerical Workers	20	0.34	N/A
Sales Occupations	40	0.67	N/A
TOTAL	5,950	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
YARN AND THREAD MILLS (SIC 228)

Reference Date April 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	90	4.11	14
Professional Occupations	30	1.37	N/A
Technical Occupations	10	0.46	N/A
Service Occupations	20	0.91	N/A
Janitors, Porters, and Cleaners	10	0.46	40
All Other Service Occupations	10	0.46	N/A
Maintenance and Production Occupations	1,790	81.74	N/A
Supervisor, Nonworking	60	2.74	17
Mechanic, Maintenance	20	0.91	17
Section Repairer and Setter	30	1.37	28
All Other Mechanics and Repairers	30	1.37	N/A
Inspector	20	0.91	48
Maintenance Repairer, General Utility	30	1.37	33
Order Filler	20	0.91	15
Production Packager	70	3.20	11
Blending Machine Operator	20	0.91	37
Bobbin Winders, Machine	30	1.37	41
Card Tenders	140	6.39	17
Drawing-Frame Tenders	40	1.83	32
Doffer	20	0.91	1
Dye-Tank Tender	10	0.46	10
Mender, Cloth	20	0.91	10
Mercerizer Operator	20	0.91	10
Picker Tender	10	0.46	36
Skein-Yarn Dyer	20	0.91	1
Speeder Tender	30	1.37	41
Spinner, Frame	230	10.50	16
Twister Tender	110	5.02	8
Winder Operator,Automatic	200	9.13	12
Yarn Winder	90	4.11	27
Screen-Stencil Printer	20	0.91	8
All Other Skilled Workers	30	1.37	N/A
All Other Semiskilled Workers	360	16.44	N/A
All Other Unskilled Workers	110	5.02	N/A
Clerical Occupations	190	8.68	N/A
Keypunch Operator	10	0.46	4
Accounting Clerk	10	0.46	1
General Clerk	30	1.37	31
Payroll/Timekeeping Clerk	20	0.91	16
Secretary	10	0.46	30
All Other Office Clerical Workers	40	1.83	N/A
Shipping Packer	20	0.91	16
Shipping/Receiving Clerk	20	0.91	37

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Weigher	10	0.46	8
Stock Clerk, Storeroom	10	0.46	4
All Other Plant Clerical Workers	10	0.46	N/A
Sales Occupations	60	2.74	N/A
Sales Representatives	50	2.28	18
All Other Sales Workers	10	0.46	N/A
TOTAL	2,190	100.00	N/A

N/A Relative Error Not Available

Note. May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISC. TEXTILE GOODS (SIC 229)

Reference Date April 1977

OCCUPATION	EMPLOYMENT Number	Percent	Relative Error Percent
Managers and Officers	280	5.25	7
Professional Occupations	250	4.69	N/A
Industrial Engineer	20	0.38	28
Mechanical Engineer	20	0.38	21
All Other Engineers	10	0.19	13
Chemist	50	0.94	12
Life Scientist	20	0.38	1
Purchasing Agent/Buyer	30	0.56	19
Accountants/Auditors	50	0.94	12
Personnel and Labor Relations Specialist	10	0.19	9
All Other Professional Workers	40	0.75	N/A
Technical Occupations	180	3.38	N/A
Computer Programmer	20	0.38	24
Engineering Technicians	30	0.56	27
Science Technicians	80	1.50	15
All Other Technicians	50	0.94	N/A
Service Occupations	100	1.88	N/A
Janitors, Porters, Cleaners	60	1.13	7
Guards and Doorkeepers	30	0.56	31
All Other Service Workers	10	0.19	N/A
Maintenance & Production Occupations	3,710	69.61	N/A
Supervisor, Nonworking	180	3.38	12
Mechanic, Maintenance	70	1.31	15
Section Repairer and Setter	50	0.94	39
Truck Driver	30	0.56	17
Carpenter	10	0.19	12
Electrician	30	0.56	13
Industrial Truck Operator	40	0.75	15
Inspector	140	2.63	27
Machinist	50	0.94	15
Maintenance Repairer, General Utility	50	0.94	24
Helper, Trades	20	0.38	37
Millwright	20	0.38	31
Order Filler	10	0.19	34
Production Packager	130	2.44	31
Stationary Boiler Firer	20	0.38	25
Blending-Machine Operator	60	1.13	17
Bobbin Winders, Automatic	20	0.38	49
Braiding Machine Operator	60	1.13	36
Burler	20	0.38	49
Calender Operator, Cloth Pressing	30	0.56	35
Card Tenders	220	4.13	14

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Cloth Feeders	20	0.38	36
Finishing-Range Tender	70	1.31	19
Coating Machine Operator	130	2.44	23
Dye-Reel Operator	10	0.19	48
Fuller, Textile	90	1.69	46
Laminating Machine Operator	90	1.69	37
Picker Tender	60	1.13	31
Spinner, Frame	80	1.50	43
Tenter-Frame Operator	40	0.75	20
Tester	30	0.56	31
Twister Tender	40	0.75	49
Washer, Synthetic Fibers	20	0.38	48
Yarn Winder	20	0.38	41
Folding Machine Operator	20	0.38	43
Cutter,Machine	40	0.75	34
Drier Operator, Textile	150	2.81	29
Mixer/Blender, Chemical	90	1.69	26
All Other Skilled Workers	170	3.19	N/A
All Other Semiskilled Workers	740	13.88	N/A
All Other Unskilled Workers	540	10.13	N/A
Clerical Occupations	640	12.01	N/A
Clerical Supervisor	20	0.38	26
Computer Operator	10	0.19	19
Keypunch Operator	10	0.19	26
Accounting Clerk	70	1.31	26
Bookkeeper, Hand	10	0.19	18
General Clerk	70	1.31	16
Order Clerk	40	0.75	20
Payroll/Timekeeping Clerk	40	0.75	9
Procurement Clerk	20	0.38	28
Secretary	110	2.06	15
Statistical Clerk	20	0.38	29
Switchboard Operator/Receptionist	10	0.19	13
All Other Office Clerical Workers	40	0.75	N/A
Production Clerk	40	0.75	14
Shipping Packer	70	1.31	19
Shipping/Receiving Clerk	40	0.75	19
Stock Clerk, Storeroom	10	0.19	23
All Other Plant Clerical Workers	10	0.19	N/A
Sales Occupations	170	3.19	N/A
Sales Representatives	140	2.63	35
Sales Clerks	30	0.56	4
TOTAL	5,330	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISC. APPAREL AND ACCESSORIES (SIC 238)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	100	3.26	14
Professional Occupations	50	1.63	N/A
Service Occupations	60	1.95	N/A
Janitors, Porters, and Cleaners	30	0.98	24
All Other Service Workers	30	0.98	N/A
Maintenance and Production Occupations	2,430	79.15	N/A
Supervisor, Nonworking	60	1.95	15
Mechanic, Sewing Machine	20	0.65	24
Presser, Hand	40	1.30	29
Presser, Machine	100	3.26	27
Inspector	40	1.30	27
Sewing Machine Operator Regular Equipment Garment	1,210	39.41	8
Sewing Machine Operator Special Automatic Equip. Garment	150	4.89	22
Bundler	30	0.98	23
Cutter, Portable Machine	50	1.63	22
Die Cutter	20	0.65	32
Fusing Machine Operator	60	1.95	18
Shaper and Presser	20	0.65	31
Spreader	40	1.30	19
Thread	70	2.28	20
Work Distributor	20	0.65	23
Marker	10	0.33	31
Turner	40	1.30	33
Soaber Operator	20	0.65	22
All Other Semiskilled Workers	350	11.40	N/A
All Other Unskilled Workers	80	2.61	N/A
Clerical Occupations	370	12.05	N/A
Bookkeeper, Hand	20	0.65	21
General Clerk	50	1.63	22
Payroll/Timekeeping Clerk	20	0.65	21
All Other Office Clerical Workers	70	2.28	N/A
Production Clerk	20	0.65	33
Shipping/Receiving Clerk	30	0.98	20
Stock Clerk, Storeroom	20	0.65	23
Shade-Ticket Marker	50	1.63	8
All Other Plant Clerical Workers	90	2.93	N/A
Sales Occupations	60	1.95	N/A
TOTAL	3,070	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
FURNITURE AND FIXTURES (SIC 25)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	500	6.02	7
Professional Occupations	160	1.93	N/A
Industrial Engineer	30	0.26	18
Purchasing Agent/Buyer	30	0.36	12
Accountants/Auditors	60	0.72	15
Personnel/Labor Relations Specialist	10	0.12	13
Designer	10	0.12	14
All Other Professional Workers	20	0.24	N/A
Technical Occupations	20	0.24	20
Service Occupations	130	1.56	N/A
Janitors, Porters, and Cleaners	70	0.84	14
All Other Service Workers	60	0.72	N/A
Maintenance and Production Occupations	6,240	75.09	N/A
Supervisor, Nonworking	280	3.37	9
Mechanic, Maintenance	10	0.12	33
Truck Driver	130	1.56	16
Cabinetmaker	230	2.77	25
Carpenter	60	0.72	27
Industrial Truck Operator	40	0.48	17
Inspector	60	0.72	17
Machinist	20	0.24	15
Maintenance Repairer, General Utility	20	0.24	16
Helper, Trades	110	1.32	21
Production Packager	130	1.56	18
Sewing Machine Operator, Regular Equipment Nongarment	350	4.21	13
Stationary Boiler Firer	20	0.24	30
Tool and Die Maker	10	0.12	31
Furniture Finisher	80	0.96	16
Band-Scroll Saw Operator	30	0.36	16
Boring Machine Operator	60	0.72	15
Cut-Off Saw Operator, Lumber	120	1.44	14
Dowel Machine Operator	10	0.12	19
Gluing Machine Operator	20	0.24	20
Lay-Out Marker, Wood	20	0.24	27
Lathe Operator, Wood	40	0.48	20
Lay-Out Marker, Metal	10	0.12	32
Machine Setter, Woodworking	30	0.36	23
Wood Machinist	250	3.01	30
Off-Bearer	60	0.72	23
Ripsaw Operator	120	1.44	13
Rubber	70	0.84	24
Sander, Wood	320	3.85	13

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Shaper, Hand	20	0.24	23
Shaper/Router Operator	40	0.48	14
Sorter, Upholstery Parts	20	0.24	27
Springer	70	0.84	17
Tenoner Operator	20	0.24	31
Upholstery Trimmer	40	0.48	28
Variety Saw Operator	50	0.60	18
Woodworking Machine Operator	240	2.89	14
Painter, Production	220	2.65	17
Punch Press Operator, Metal	40	0.48	19
Punch Press Setter, Metal	20	0.24	35
Shear/Slitter Setter	10	0.12	29
Upholsterer	370	4.45	19
Upholstery Cutter	160	1.93	14
Gluer/Cementer, Hand	20	0.24	32
Welders/Flamecutters	50	0.60	18
Cushion Maker	60	0.72	20
Assembler, Class A	140	1.68	25
Assembler, Class B	260	3.13	19
Assembler, Class C	380	4.57	22
Decorator, Hand	30	0.36	20
All Other Skilled Workers	190	2.29	N/A
All Other Semiskilled Workers	510	6.14	N/A
All Other Unskilled Workers	570	6.86	N/A
Clerical Occupations	930	11.19	N/A
Clerical Supervisor	20	0.24	25
Bookkeeping/Billing Machine Operator	30	0.36	25
Keypunch Operator	10	0.12	19
All Other Office Machine Operators	20	0.24	N/A
Accounting Clerk	40	0.48	15
Bookkeeper, Hand	90	1.08	14
File Clerk	10	0.12	21
General Clerk, Office	150	1.81	11
Order Clerk	30	0.36	20
Payroll/Timekeeping Clerk	40	0.48	11
Procurement Clerk	10	0.12	19
Secretary	80	0.96	13
Switchboard Operator/Receptionist	30	0.36	15
Typist	30	0.36	26
All Other Office Clerical Workers	30	0.36	N/A
Production Clerk/Coordinator	30	0.36	21
Shipping Packer	130	1.56	14
Shipping/Receiving Clerk	90	1.08	11
Stock Clerk	50	0.60	24
All Other Clerical Workers	10	0.12	24

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sales Occupations	330	3.97	N/A
Sales Representatives	310	3.73	16
All Other Sales Workers	20	0.24	N/A
TOTAL	8,310	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

RANKED OCCUPATIONAL EMPLOYMENT IN THE FURNITURE AND FIXTURES INDUSTRY

SIC 25

	OCCUPATION	EMPLOYMENT
1.	All Other Unskilled Workers	570
2.	All Other Semiskilled Workers	510
3.	Managers and Officers	500
4.	Assembler, Class - C	380
5.	Upholster	370
6.	Sewing Machine Operator, Regular Equipment, Nongarment	350
7.	Sander, Wood	320
8.	Sales Representatives	310
9.	Supervisor, Nonworking	280
10.	Assembler, Class - B	260
		3,850

These 10 occupations make up 46% of total industry employment.

OCCUPATIONS OF EMPLOYEES
HOUSEHOLD FURNITURE (SIC 251)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	360	5.37	8
Professional Occupations	120	1.79	N/A
Industrial Engineer	30	0.45	18
Purchasing Agent/Buyer	20	0.30	12
Accountants/Auditors	40	0.60	19
Personnel/Labor Relations Specialist	10	0.15	11
Designer	10	0.15	14
All Other Professional Workers	10	0.15	N/A
Technical Occupations	10	0.15	N/A
Service Occupations	120	1.79	N/A
Janitors, Porters, and Cleaners	60	0.45	14
All Other Service Workers	60	0.89	N/A
Maintenance and Production Occupations	5,120	76.30	N/A
Supervisor, Nonworking	220	3.28	9
Mechanic, Maintenance	10	0.15	33
All Other Mechanics and Repairers	20	0.30	N/A
Truck Driver	100	1.49	18
Cabinetmaker	130	1.94	35
Industrial Truck Operator	30	0.45	20
Inspector	60	0.89	17
Machinist	20	0.30	14
Maintenance Repairer, General Utility	20	0.30	17
Helper, Trades	70	1.04	29
Upholstery Cutter	160	2.38	14
Gluer/Cementer, Hand	20	0.30	33
Cushion Maker	60	0.89	20
Assembler - A	110	1.64	30
Assembler - B	220	3.28	22
Assembler - C	350	5.22	23
Decorator, Hand	30	0.45	20
All Other Skilled Workers	50	0.75	N/A
All Other Semiskilled Workers	370	5.51	N/A
All Other Unskilled Workers	480	7.15	N/A
Clerical Occupations	730	10.88	N/A
Clerical Supervisor	10	0.15	27
Bookkeeping/Billing Machine Operator	20	0.30	28
Keypunch Operator	10	0.15	19
All Other Office Machine Operators	20	0.30	N/A
Accounting Clerk	30	0.45	16
Bookkeeper, Hand	60	0.89	16

SIC 251 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
File Clerk	10	0.15	21
General Clerk	130	1.94	12
Order Clerk	30	0.45	21
Payroll/Timekeeping Clerk	30	0.45	12
Procurement Clerk	10	0.15	15
Secretary	60	0.89	15
Switchboard Operator/Receptionist	20	0.30	17
Typist	20	0.30	28
All Other Office Clerical Workers	40	0.60	N/A
Production Packager	110	1.64	19
Sewing Machine Operator, Regular Equipment, Nongarment	340	5.07	13
Stationary Boiler Firer	20	0.30	30
Furniture Finisher	80	1.19	16
Band-Scroll Saw Operator	20	0.30	17
Boring-Machine Operator	60	0.89	15
Cut-Off-Saw Operator	110	1.64	15
Dowel Machine Operator	10	0.15	19
Gluing Machine Operator	20	0.30	20
Lathe Operator, Wood	40	0.60	20
Machine Setter, Woodworking	30	0.45	23
Wood Machinist	210	3.13	35
Off-Bearer	60	0.89	23
Ripsaw Operator	110	1.64	14
Rubber	70	1.04	25
Sander,Wood	300	4.47	14
Shaper, Hand	20	0.30	23
Shaper/Router Operator	40	0.60	14
Sorter, Upholstery Parts	20	0.30	27
Springer	70	1.04	17
Tenoner Operator	20	0.30	31
Upholstery Trimmer	40	0.60	28
Variety Saw Operator	30	0.45	25
Woodworking Machine Operator	200	2.98	15
Painter,Production	180	2.68	20
Punch-Press Operator, Metal	10	0.15	34
Upholsterer	370	5.51	19
Production Clerk	20	0.30	20
Shipping Packer	100	1.49	16
Shipping/Receiving Clerk	60	0.89	12
Stock Clerk, Storeroom	40	0.60	27
All Other Plant Clerical Workers	10	0.15	N/A
Sales Occupations	250	3.73	N/A
Sales Representatives	240	3.58	21
All Other Sales Workers	10	0.15	N/A
TOTAL	6,710	100.00	N/A

N/A Relative Error Not Available
Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
PAPER AND ALLIED PRODUCTS (SIC 26)

Reference Date April 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,760	5.99	7
Professional Occupations	920	3.13	N/A
Chemical Engineer	40	0.14	21
Electrical/Electronic Engineer	30	0.10	17
Industrial Engineer	60	0.20	13
Mechanical Engineer	100	0.34	14
All Other Engineers	40	0.14	21
Chemist	100	0.34	14
All Other Physical Scientists	20	0.07	N/A
Systems Analyst, EDP	40	0.14	17
Purchasing Agent/Buyer	20	0.07	10
Accountant/Auditor	190	0.65	9
Commercial Artist	30	0.10	29
Nurse, Professional	20	0.07	13
Personnel/Labor Relations Specialist	70	0.24	11
Designer	80	0.27	15
All Other Professional Workers	80	0.27	N/A
Technical Occupations	430	1.46	N/A
Computer Programmer	50	0.17	22
Drafter	40	0.14	15
All Other Engineering Technicians	110	0.37	22
Science Technicians	80	0.27	15
Service Occupations	430	1.46	N/A
Supervisor, Nonworking Service	40	0.14	34
Janitors, Porters, & Cleaners	270	0.92	7
Guards and Doorkeepers	70	0.24	25
All Other Service Workers	50	0.17	N/A
Maintenance and Production Occupations	21,210	72.19	N/A
Supervisor, Nonworking	1,170	3.98	7
Mechanic, Automotive	40	0.14	15
Mechanic, Maintenance	250	0.85	18
Truck Driver	370	1.26	11
Carpenter	60	0.20	15
Compositor/Typesetter	40	0.14	22
Electrician	190	0.65	7
Industrial Truck Operator	650	2.21	10
Inspector	240	0.82	20
Instrument Mechanic	30	0.10	12
Machinist	230	0.78	14
Maintenance Repairer, General Utility	230	0.78	18
Helper, Trade	140	0.48	24
Millwright	260	0.88	11
Oiler	70	0.24	12

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Order Filler	220	0.75	18
Painter, Maintenance	30	0.10	26
Plumber/Pipefitter	100	0.34	10
Press Operator	610	2.08	17
Production Packager	1,030	3.51	19
Scrapper/Stripper	240	0.82	21
Stationary Boiler Firer	190	0.65	10
Stationary Engineer	140	0.48	16
Tool and Die Maker	40	0.14	27
Welder/Flamecutter	40	0.14	13
Back Tender	300	1.02	5
Beater Engineer	190	0.65	8
Beater	200	0.68	9
Box Maker, Paperboard	60	0.20	29
Carton-Forming-Machine Operator	140	0.48	31
Coating Mixer Tender	80	0.27	19
Combiner Operator	60	0.20	25
Corrugator-Knife Operator	50	0.17	30
Corrugator Operator	70	0.24	24
Creping Machine Operator	30	0.10	13
Cut & Creasing Press Operator	180	0.61	21
Cylinder Machine Tender	60	0.20	18
Die Cutter	280	0.95	25
Die Maker	90	0.31	17
Die Mounter	30	0.10	22
Digester Operator	10	0.03	28
Etcher/Engraver	70	0.24	22
Flexo-Folder-Gluer Operator	110	0.37	25
Fourdrinier Machine Tender	240	0.82	6
Machine Setter, Paper Goods	330	1.12	25
Paper Reel/Rewinder Operator	250	0.85	27
Printer-Slotter Operator	130	0.44	26
Printer-Slotter Feeder	90	0.31	25
Pulper	100	0.34	19
Scorer	70	0.24	31
Slitting Machine Operator	450	1.53	21
Slotter Operator	50	0.17	33
Stapline Machine Operator	40	0.14	29
Supercalender Operator	100	0.34	21
Taping Machine Operator	80	0.27	28
Tester	230	0.78	12
Waxing Machine Operator	40	0.14	34
Winder, Paper Machine	300	1.02	7
Wrapping Machine Operator	230	0.78	28
Fourth/Fifth Hand, Paper Machine	290	0.99	11
Knotting/The Machine Operator	60	0.20	N/A
Stringing/Tape Fastener Machine Operator	20	0.07	N/A
Baling Machine Operator	190	0.65	14
Cutter, Machine	580	1.97	26

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Bindery Worker, Assembly	50	0.17	34
Bindery Worker, Stitching	10	0.03	31
All Other Bindery Workers	30	0.10	26
Extruder Operator, Plastic	50	0.17	34
Assembler, Class C	720	2.45	31
All Other Skilled Workers	380	1.29	N/A
All Other Semiskilled Workers	4,780	16.27	N/A
All Other Unskilled Workers	2,700	9.19	N/A
Clerical Occupations	3,750	12.76	N/A
Clerical Supervisor	140	9.48	15
Bookkeeping/Billing Machine Operator	60	0.20	22
Computer Operator	60	0.20	16
Keypunch Operator	100	0.34	11
All Other Office Machine Operators	40	0.14	31
Stenographer	50	0.17	24
Accounting Clerk	160	0.54	12
Bookkeeper, Hand	90	0.31	17
File Clerk	40	0.14	25
General Clerk, Office	540	1.84	7
Order Clerk	180	0.61	12
Payroll/Timekeeping Clerk	140	0.48	11
Personnel Clerk	40	0.14	15
Procurement Clerk	50	0.17	24
Secretary	370	1.26	9
Statistical Clerk	60	0.20	17
Switchboard Operator	30	0.10	31
Switchboard Operator/Receptionist	100	0.34	14
Typist	100	0.34	33
Box Estimator, Paper	90	0.31	16
All Other Office Clerical Workers	100	0.34	N/A
Production Clerk/Coordinator	200	0.68	9
Shipping/Receiving Clerk	380	1.29	14
Weigher, Record Keeping	20	0.07	27
Stock Clerk	160	0.54	17
All Other Plant Clerical Workers	450	1.53	N/A
Sales Occupations	880	3.00	N/A
Sales Representatives	850	2.89	9
All Other Sales Occupations	30	0.10	N/A
TOTAL	29,380	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

RANKED OCCUPATIONAL EMPLOYMENT IN THE PAPER AND ALLIED PRODUCTS INDUSTRY

SIC 26

	OCCUPATION	EMPLOYMENT
1.	All Other Semiskilled Workers	4,780
2.	All Other Unskilled Workers	2,700
3.	Managers and Officers	1,760
4.	Supervisor, Nonworking	1,170
5.	Production Packager	1,030
6.	Sales Representatives	850
7.	Assembler, Class - C	720
8.	Industrial Truck Operator	650
9.	Press Operator	610
10.	Cutter, Machine	580
		14,850

These 10 occupations make up 51% of total industry employment.

OCCUPATIONS OF EMPLOYEES
PAPER MILLS, EXCEPT BUILDING PAPER MILLS (SIC 262)

Reference Date April 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	330	5.23	9
Professional Occupations	260	4.12	N/A
Chemical Engineer	30	0.48	23
Electrical Engineer	10	0.16	35
Industrial Engineer	10	0.16	22
Mechanical Engineer	20	0.32	24
All Other Engineers	10	0.16	29
Chemist	30	0.48	16
All Other Physical Scientists	10	0.16	N/A
Purchasing Agent/Buyer	30	0.48	11
Accountants/Auditors	50	0.79	9
Personnel/Labor Relations Specialist	20	0.32	13
All Other Professional Workers	40	0.63	N/A
Technical Occupations	100	1.58	N/A
Drafter	10	0.16	24
All Other Engineering Technicians	80	1.27	N/A
All Other Technicians	10	0.16	N/A
Service Occupations	140	2.22	N/A
Janitors, Porters, Cleaners	80	1.27	11
Guards and Doorkeepers	40	0.63	24
All Other Service Workers	20	0.32	N/A
Maintenance and Production Occupations	4,760	75.44	N/A
Supervisor, Nonworking	300	4.75	9
Mechanic, Automotive	10	0.16	18
Mechanic, Maintenance	50	0.79	30
Truck Driver	50	0.79	11
Electrician	80	1.27	7
Industrial Truck Operator	140	2.22	13
Inspector	50	0.79	20
Instrument Mechanic	30	0.48	14
Machinist	30	0.48	15
Maintenance Repairer,General Utility	70	1.11	20
Helper, Trades	60	0.95	45
Millwright	150	2.38	12
Oiler	40	0.63	14
Order Filler	40	0.63	37
Painter, Maintenance	20	0.32	14
Plumber/Pipefitter	60	0.95	12
Production Packager	290	4.60	24
Stationary Boiler Firer	100	1.58	15

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Stationary Engineer	80	1.27	16
Welders and Flamecutters	20	0.32	15
Air-Drier-Machine Tender	30	0.48	37
Back Tender	260	4.12	5
Beater Engineer	160	2.54	8
Beater	160	2.54	12
Coater Operator Off-Machine	20	0.32	26
Coating Mixer Tender	30	0.48	37
Cylinder-Machine Tender	30	0.48	39
Digester Operator	10	0.16	28
Fourdrinier Machine Tender	240	3.80	6
Layboy Tender	40	0.63	37
Machine-Setter, Paper Goods	50	0.79	39
Paper Reel/Rewinder Operator	80	1.27	25
Pulper	70	1.11	22
Slitting Machine Operator	140	2.22	28
Super Calender Operator	90	1.43	23
Tester	170	2.69	13
Wet-Machine Tender	10	0.16	48
Winder, Paper Machine	250	3.96	6
4th Hand/5th Hand/Paper Machine	130	2.06	16
Baling Machine Operator	40	0.63	16
Cutter, Machine	100	1.58	25
Embossing, Stamping, Marking Machine Operator	10	0.16	44
Mixer/Blender, Chemicals	30	0.48	35
All Other Skilled Workers	80	1.27	N/A
All Other Semiskilled Workers	440	6.97	N/A
All Other Unskilled Workers	420	6.66	N/A
Clerical Occupations	620	9.83	N/A
Clerical Supervisors	20	0.32	23
Bookkeeping & Billing Machine Operator	10	0.16	36
Computer Operator	10	0.16	24
Keypunch Operator	10	0.16	24
Stenographer	10	0.16	33
Accounting Clerk	50	0.79	21
Bookkeeper, Hand	10	0.16	22
Order Clerk	40	0.63	15
Payroll/Timekeeping Clerk	30	0.48	18
Procurement Clerk	10	0.16	17
Secretary	80	1.27	14
Statistical Clerk	30	0.48	21
Switchboard Operator/Receptionist	20	0.32	14
Typist	20	0.32	29
All Other Office Clerical Workers	40	0.63	N/A
Production Clerk	30	0.48	11
Shipping Packer	80	1.27	19
Shipping/Receiving Clerk	40	0.63	12

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Weigher	20	0.32	27
Stock Clerk, Storeroom	40	0.63	18
All Other Plant Clerical Workers	20	0.32	32
Sales Occupations	100	1.58	N/A
Sales Representatives	90	1.43	14
All Other Sales Workers	10	0.16	N/A
TOTAL	6,310	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS CONVERTED PAPER PRODUCTS (SIC 264)

Reference Date April 1977

OCCUPATION	EMPLOYMENT Number	Percent	Relative Error Percent
Managers and Officers	960	7.42	11
Professional Occupations	550	4.25	N/A
Electrical/Electronic Engineer	10	0.08	11
Industrial Engineer	40	0.31	17
Mechanical Engineer	60	0.46	21
All Other Engineers	30	0.23	N/A
Chemist	70	0.54	19
Systems Analyst, E.D.P.	40	0.31	19
Purchasing Agent/Buyer	40	0.31	21
Accountants/Auditors	100	0.77	16
Nurse, Professional	10	0.08	16
Personnel/Labor Relations Specialist	30	0.23	20
Designer	40	0.31	23
All Other Professional Workers	80	0.62	N/A
Technical Occupations	320	2.47	N/A
Computer Programmer	40	0.31	27
Drafter	30	0.23	18
Science Technicians	70	0.54	16
All Other Technicians	180	1.39	N/A
Service Occupations	180	1.39	N/A
Janitors, Porters, and Cleaners	130	1.01	11
All Other Service Workers	50	0.39	N/A
Maintenance and Production Occupations	8,380	64.81	N/A
Supervisor, Nonworking	450	3.48	13
Mechanics and Repairers	90	0.70	N/A
Truck Driver	60	0.46	27
Carpenter	20	0.15	12
Compositor/Typesetter	30	0.23	20
Electrician	60	0.46	15
Industrial Truck Operator	230	1.78	19
Machinist	140	1.08	22
Helper, Trades	40	0.31	33
Millwright	60	0.46	35
Oiler	10	0.08	34
Order Filler	120	0.93	26
Plumber/Pipefitter	20	0.15	29
Press Operator	330	2.55	26
Stationary Boiler Firer	20	0.15	28
Coating Mixer Tender	50	0.39	20
Creping-Machine Operator	20	0.15	1
Cut and Creasing Press Operator	10	0.08	31
Etcher/Engraver	40	0.31	19

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Folding-Machine Feeder	20	0.15	25
Knotting/Tagging Machine Operator	60	0.46	1
Stringer/Tape Fastener	20	0.15	5
Bindery Worker, Assembly	40	0.31	31
Bindery Worker, Stitching	10	0.08	31
All Other Bindery Workers	20	0.15	30
Extruder Operator, Plastics	50	0.39	34
All Other Skilled Workers	370	2.86	N/A
All Other Semiskilled Workers	4,500	34.80	N/A
All Other Unskilled Workers	1,490	11.52	N/A
Clerical Occupations	2,110	16.32	N/A
Clerical Supervisor	100	0.77	18
Computer Operators	30	0.23	20
Keypunch Operators	80	0.63	13
Accounting Clerk	70	0.54	19
Bookkeeper, Hand	40	0.31	31
General Clerk	430	3.33	8
Order Clerk	90	0.70	20
Payroll/Timekeeping Clerk	60	0.46	19
Secretary	210	1.62	13
All Other Office Clerical Workers	300	2.32	N/A
Production Clerk	100	0.77	15
Shipping/Receiving Clerk	260	2.01	20
Stock Clerk, Storeroom	80	0.62	30
All Other Plant Clerical Workers	260	2.01	N/A
Sales Occupations	430	3.33	N/A
Sales Representatives	410	3.17	17
All Other Sales Workers	20	0.15	N/A
TOTAL	12,930	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
GREETING CARD PUBLISHING (SIC 277)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	100	7.30	1
Professional Occupations	110	8.03	N/A
Statistician	20	1.46	1
Designer	50	3.65	1
All Other Professional Workers	40	2.92	N/A
Technical Occupations	10	0.73	N/A
Maintenance and Production Workers	410	29.93	N/A
Supervisor, Nonworking	10	0.73	1
Inspector	30	2.19	1
Order Filler	30	2.19	1
Production Packager	30	2.19	1
Offset Lithographic Operator	20	1.46	1
Steel Die Press Operator	10	0.73	1
Press Assistants and Feeders	10	0.73	1
All Other Skilled Workers	20	1.46	N/A
All Other Semiskilled Workers	210	15.33	N/A
All Other Unskilled Workers	40	2.93	N/A
Clerical Occupations	280	20.44	N/A
Clerical Supervisor	40	2.92	1
Computer Operator	10	0.73	1
Keypunch Operator	20	1.46	1
General Clerk	90	6.57	1
Order Clerk	30	2.19	1
Secretary	20	1.46	1
Typist	10	0.73	1
All Other Office Clerical Workers	30	2.19	N/A
Shipping Packer	20	1.46	1
All Other Plant Clerical Workers	10	0.73	1
Sales Occupations	460	33.58	N/A
Sales Representatives	230	16.79	1
All Other Sales Workers	230	16.79	1
TOTAL	1,370	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
PRINTING TRADE SERVICES (SIC 279)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	90	8.82	6
Professional Occupations	20	1.96	N/A
Service Occupations	10	0.98	N/A
Maintenance and Production Occupations	710	69.61	N/A
Supervisor, Nonworking	30	2.94	10
Delivery and Route Workers	20	1.96	19
Platemaker	30	2.94	32
Stripper	60	5.88	16
Camera Operator, Printing	60	5.88	12
Copy Marker	20	1.96	23
Hand Compositor	20	1.96	35
Line Casting Machine Operator	30	2.94	24
Line Casting Machine Keyboard Operator	70	6.86	19
Pasteup Man/Woman	20	1.96	21
Phototypesetting-Machine Keyboard Operator	30	2.94	29
Phototypesetter Operator	20	1.96	34
Proofreader, Composed Copy	70	6.86	12
Photoengraver	50	4.90	26
All Other Skilled Workers	20	1.96	N/A
All Other Semiskilled Workers	110	10.78	N/A
All Other Unskilled Workers	50	4.90	N/A
Clerical Occupations	110	10.78	N/A
Bookkeeper, Hand	10	0.98	21
General Clerk	30	2.94	12
Secretary	10	0.98	17
Typist	20	1.96	17
All Other Office Clerical Workers	20	1.96	N/A
Shipping/Receiving Clerk	20	1.96	21
Sales Occupations	80	7.84	N/A
TOTAL	1,020	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
PAINTS AND ALLIED PRODUCTS (SIC 285)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	140	11.11	8
Professional Occupations	100	7.94	N/A
Chemist	80	6.35	12
Accountant/Auditors	10	0.79	27
All Other Professional Workers	10	0.79	N/A
Technical Occupations	10	0.79	N/A
Service Occupations	10	0.79	N/A
Maintenance and Production Workers	680	53.97	N/A
Supervisor, Nonworking	30	2.38	17
Truck Driver	30	2.38	23
Industrial Truck Operator	20	1.59	25
Inspector	10	0.79	22
Maintenance Repairer, General Utility	20	1.59	15
Order Filler	30	2.38	30
Production Packager	140	11.11	20
Chemical Operator, Helper	20	1.59	23
Grinder Operator, Chemical	30	2.38	21
Tinter	60	4.76	13
Mixer/Blender, Chemical	100	7.94	15
All Other Skilled Workers	30	2.38	N/A
All Other Semiskilled Workers	90	7.14	N/A
All Other Unskilled Workers	70	5.56	N/A
Clerical Occupations	220	17.46	N/A
Accounting Clerk	30	2.38	22
General Clerk	40	3.17	15
Order Clerk	10	0.79	19
Secretary	30	2.38	14
All Other Office Clerical Workers	60	4.76	N/A
Shipping Packer	20	1.59	27
Shipping/Receiving Clerk	30	2.38	15
Sales Occupations	100	7.94	N/A
TOTAL	1,260	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
TIRES AND INNER TUBES (SIC 301)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	70	3.00	40
Professional Occupations	80	3.43	N/A
Mechanical Engineer	10	0.43	3
All Other Engineers	30	1.29	N/A
Accountants/Auditors	20	0.86	23
All Other Professional Occupations	20	0.86	N/A
Technical Occupations	50	2.15	N/A
Science Technicians	50	2.15	3
Service Occupations	150	6.44	N/A
Janitors, Porters, Cleaners	40	1.72	3
All Other Service Workers	110	4.72	3
Maintenance and Production Occupations	1,850	79.40	N/A
Supervisor, Nonworking	150	6.44	1
Mechanic, Maintenance	110	4.72	3
Truck Driver	20	0.86	3
Carpenter	10	0.43	3
Electrician	50	2.15	3
Rigger	10	0.43	3
Industrial Truck Operator	90	3.86	3
Inspector	120	5.15	7
Machinist	10	0.43	35
Order Filler	50	2.15	3
Plumber/Pipefitter	40	1.72	3
Production Packager	30	1.29	3
Sheet Metal Workers	10	0.43	3
Stationary Engineer	10	0.43	3
Tool and Die Maker	10	0.43	3
Bead Flipper	10	0.43	3
Bead Forming Machine Operator	10	0.43	3
Bias Machine Operator	230	9.87	3
Chemical Operator Helper	20	0.86	3
Rubber-Mill Operator	120	5.15	3
Tester	30	1.29	3
Tire Builder	200	8.58	3
Tire Finisher	20	0.86	3
Tire Repairer	90	3.86	3
Watchcase Vulcanizer	100	4.29	3
Drier Operator	10	0.43	3
Calender Operator	10	0.43	3
Extruder Operator	10	0.43	3
Extruder Operator Helper	30	1.29	3
Calender Operator Helper	20	0.86	3

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Mixer/Blender Chemicals	20	0.86	3
All Other Skilled Workers	50	2.15	N/A
All Other Semiskilled Workers	100	4.29	N/A
All Other Unskilled Workers	50	2.15	N/A
Clerical Occupations	120	5.15	N/A
Order Clerk	10	0.43	3
Payroll/Timekeeping Clerk	10	0.43	3
Secretary	20	0.86	25
Typist	40	1.72	3
All Other Office Clerical Occupations	10	0.43	N/A
Production Clerk	20	0.86	3
Shipping/Receiving Clerk	10	0.43	40
Sales Occupations	10	0.43	N/A
Sales Representatives	10	0.43	3
TOTAL	2,330	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS PLASTICS PRODUCTS (SIC 307)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,290	6.46	5
Professional Occupations	590	2.95	N/A
Chemical Engineer	20	0.10	16
Electrical/Electronic Engineer	20	0.10	23
Industrial Engineer	40	0.20	14
Mechanical Engineer	90	0.45	14
All Other Engineers	50	0.25	14
Chemist	30	0.15	18
Systems Analyst E.D.P.	20	0.10	18
Purchasing Agent/Buyer	100	0.50	10
Accountants/Auditors	130	0.65	11
Personnel/Labor Relations Specialist	50	0.25	11
Designer	30	0.15	15
All Other Professional Workers	10	0.05	N/A
Technical Occupations	280	1.40	N/A
Computer Programmer	30	0.15	11
Drafter	40	0.20	12
All Other Engineering Technicians	90	0.45	N/A
Science Technicians	110	0.55	14
All Other Technicians	10	0.05	N/A
Service Occupations	290	1.45	N/A
Supervisor, Nonworking, Service	10	0.05	25
Janitors, Porters, and Cleaners	230	1.15	14
Guards and Doorkeepers	30	0.15	23
Food Service Workers	10	0.05	8
All Other Service Workers	10	0.05	N/A
Maintenance and Production Occupations	15,240	76.28	N/A
Supervisor, Nonworking	720	3.60	8
Mechanic, Maintenance	420	2.10	13
All Other Mechanics and Repairers	40	0.20	N/A
Truck Driver	80	0.40	12
Electrician	50	0.25	12
Industrial Truck Driver	150	0.75	13
Inspector	410	2.05	12
Machinist	320	1.60	22
Maintenance Repairer, General Utility	240	1.20	19
Helper, Trades	60	0.30	23
Oiler	10	0.05	27
Order Filler	70	0.35	20
Press Operator	10	0.05	34
Production Packager	1,320	6.61	15
Tool and Die Maker	150	0.75	31
Chemical Operator - A	40	0.20	20

SIC 307 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Chemical Operator Helper	50	0.25	27
Die Cutter	20	0.10	34
Tumbler Operator, Plastics	10	0.05	13
Compression/Injection Molding Machine Operator	3,120	15.62	10
Setter, Plastic Molding Machine	210	1.05	21
Weigher, Production	50	0.25	30
Embossing/Stamping/Marking Machine Operator	90	0.45	17
Grinder Operator	120	0.60	19
Extruder Operator, Plastic	630	3.15	23
Extruder Operator, Helper	370	1.85	18
Heat Sealer	210	1.05	30
Assembler - B	180	0.90	37
Assembler - C	1,600	8.01	16
Mixer/Blender, Chemical	170	0.85	13
Blow-Molding Machine Operator	380	1.90	27
All Other Skilled Workers	390	1.95	N/A
All Other Semiskilled Workers	1,570	7.86	N/A
All Other Unskilled Workers	1,980	9.91	N/A
Clerical Occupations	1,890	9.46	N/A
Clerical Supervisor	60	0.30	10
Bookkeeping/Billing Machine Operator	30	0.15	19
Computer Operator	30	0.15	17
Keypunch Operator	30	0.15	22
All Other Office Machine Operators	20	0.10	N/A
Stenographer	20	0.10	10
Accounting Clerk	120	0.60	11
Bookkeeper, Hand	50	0.25	26
General Clerk	210	1.05	15
Order Clerk	50	0.25	17
Payroll/Timekeeping Clerk	60	0.30	8
Personnel Clerk	20	0.10	17
Procurement Clerk	20	0.10	17
Receptionist	20	0.10	21
Secretary	250	1.25	11
Statistical Clerk	20	0.10	27
Switchboard Operator/Receptionist	50	0.25	9
Typist	40	0.20	16
All Other Office Clerical Workers	70	0.35	N/A
Production Clerk	100	0.50	8
Shipping Packer	280	1.40	17
Shipping/Receiving Clerk	210	1.05	12
Stock Clerk, Storeroom	80	0.40	19
All Other Plant Clerical Workers	50	0.25	22
Sales Occupations	400	2.00	N/A
Sales Representatives	380	1.90	13
All Other Sales Workers	20	0.10	N/A
TOTAL	19,980	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
LEATHER AND LEATHER PRODUCTS (SIC 31)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	990	4.22	10
Professional Occupations	390	1.66	N/A
Industrial Engineer	40	0.17	15
Mechanical Engineer	20	0.09	30
All Other Engineers	10	0.04	N/A
Chemist	20	0.09	22
All Other Physical Scientist	10	0.04	N/A
Systems Analyst, EDP	20	0.09	27
Purchasing Agent/Buyer	100	0.43	12
Accountants/Auditors	90	0.38	21
Personnel/Labor Relations Specialist	30	0.13	17
Designer	40	0.17	17
All Other Professional Workers	10	0.04	N/A
Technical Occupations	60	0.26	N/A
Computer Programmer	20	0.09	25
Engineering Technicians	10	0.04	29
Science Technicians	10	0.04	28
All Other Technicians	20	0.09	22
Service Occupations	230	0.98	N/A
Janitors, Porters, and Cleaners	120	0.51	8
Guards and Doorkeepers	60	0.26	17
All Other Service Workers	50	0.21	N/A
Maintenance and Production Occupations	18,500	78.89	N/A
Supervisor, Nonworking	560	2.39	6
Mechanic, Maintenance	70	0.30	15
Truck Driver	60	0.26	14
Carpenter	40	0.17	21
Industrial Truck Operator	60	0.26	19
Inspector	220	0.94	12
Machinist	80	0.34	13
Maintenance Repairer, General Utility	130	0.55	15
Production Packager	460	1.96	13
Sewing Machine Operator, Regular Equipment, Nongarment	660	2.81	22
Sewing Machine Operator, Special Equipment, Nongarment	100	0.43	16
Skiver	310	1.32	9
Trimmer, Machine	220	0.94	10
Assembler for Puller-Over	140	0.60	16
Beamer, Machine	50	0.21	28
Bed Laster	130	0.55	30
Bottom Filler	50	0.21	21

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Buffer, Hides or Skin	100	0.43	11
Buffer, Shoe Parts	140	0.60	11
Burnisher	60	0.26	15
Cementer, Machine Joiner	260	1.11	21
Perforator Operator	90	0.38	16
Cobbler	80	0.34	17
Die Cutter	780	3.33	7
Flamer	60	0.26	11
Floor Boy/Girl	710	3.03	11
Folder, Machine	50	0.21	21
Glue-Spreading-Machine Operator	60	0.26	25
Heel Attacher	80	0.34	16
Heel Breaster, Leather	40	0.17	22
Heel Seat Laster, Machine	60	0.26	12
Heel Seat Fitter, Machine	30	0.13	25
Inker, Hand or Machine	70	0.30	15
Joint Cutter, Machine	20	0.09	22
Leather Stamper, Hand	30	0.13	26
Limer	20	0.09	33
Tanning-Liquor Maker	50	0.21	26
Measuring Machine Operator, Leather	80	0.34	17
Patternmaker	40	0.17	20
Puller-Over	80	0.34	18
Repairer, Finish	270	1.15	13
Rough Rounder, Machine	80	0.34	14
Seam-Rubbing Machine Operator	30	0.13	21
Seasoner, Machine	80	0.34	26
Seasoner Mixer	30	0.13	26
Shank-Piece Tacker	50	0.21	14
Side Laster	130	0.55	13
Sole Leveler Machine	50	0.21	21
Sorter, Leather	240	1.02	10
Splitting Machine Feeder	130	0.55	17
Sprayer, Hand/Machine	160	0.68	13
Stainer	90	0.38	29
Staker, Machine	60	0.26	20
Stitchdown-Thread Laster	10	0.04	31
Stitcher, Special Machine	290	1.24	15
Stitcher, Standard Machine	1,950	8.32	11
Stitcher, Utility	380	1.62	25
Tacker, Toggler and Paster	240	1.02	13
Tanning Drum Operator	110	0.47	14
Thermalasting Machine Operator	40	0.17	31
Toe Laster	30	0.13	21
Treer	120	0.51	18
Wringer-Machine Operator	120	0.51	19
Riveter, Light	80	0.34	26
Conveyor Operator/Tender	60	0.26	18
Vamp Creaser	40	0.17	28
Splitter, Machine	100	0.43	11

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Fastener, Machine	110	0.47	16
Cementer/Paster/Backer/Fitter, Hand	450	1.92	17
Eyelet-Machine Operator	80	0.34	15
Pulling and Lasting Machine Operator	180	0.77	29
Cutter, Hand	220	0.94	14
Gluer/Cementer, Hand	140	0.60	22
Instructor, Leather/Footwear Machinery	20	0.09	35
Handbag Framer	40	0.17	14
Embossing/Stamping/Marking Machine Operator	270	1.15	10
Assembler, Class A	70	0.30	28
Assembler, Class B	230	0.98	9
Assembler, Class C	590	2.52	17
All Other Skilled Workers	400	1.71	N/A
All Other Semiskilled Workers	2,270	9.68	N/A
All Other Unskilled Workers	2,130	9.08	N/A
Clerical Occupations	2,820	12.03	N/A
Clerical, Supervisor	110	0.47	17
Bookkeeping/Billing Machine Operator	50	0.21	19
Computer Operator	40	0.17	23
Keypunch Operator	110	0.47	33
All Other Office Machine Operator	50	0.21	N/A
Accounting Clerk	150	0.64	20
Bookkeeper, Hand	160	0.68	9
File Clerk	40	0.17	17
General Clerk, Office	320	1.36	20
Order Clerk	160	0.68	30
Payroll/Timekeeping Clerk	190	0.81	5
Personnel Clerk	20	0.09	18
Procurement Clerk	30	0.13	20
Secretary	130	0.55	18
Statistical Clerk	10	0.04	27
Switchboard Operator	20	0.09	26
Switchboard Operator/Receptionist	70	0.30	10
Typist	100	0.43	24
All Other Office Clerical Workers	150	0.64	N/A
Production Clerk/Coordinator	70	0.30	14
Shipping Packer	370	1.58	9
Shipping/Receiving Clerk	210	0.90	9
All Other Plant Clerical Workers	260	1.11	N/A
Sales Occupations	460	1.96	N/A
Sales Representative	400	1.71	16
Sales Clerk	60	0.26	32
TOTAL	23,450	100.00	N/A

N/A Relative Error Not Available
Note: May not add to totals due to rounding.

RANKED OCCUPATIONAL EMPLOYMENT IN THE LEATHER AND LEATHER PRODUCTS INDUSTRY

SIC 31

OCCUPATION	EMPLOYMENT
1. All Other Semiskilled Workers	2,270
2. All Other Unskilled Workers	2,130
3. Stitchers, Standard Machine	1,950
4. Managers and Officers	990
5. Die Cutter	780
6. Floor Boy/Girl	710
7. Sewing Machine Operator, Regular Equipment, Nongarment	660
8. Assembler, Class - C	590
9. Supervisor, Nonworking	560
10. Production Packager	460
	11,100

These 10 occupations make up 47% of total industry employment.

OCCUPATIONS OF EMPLOYEES
BOOT AND SHOE CUT STOCK AND FINDINGS (SIC 313)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	190	7.01	6
Professional Occupations	60	2.21	N/A
Engineers	10	0.37	N/A
Purchasing Agent/Buyer	20	0.74	19
All Other Professional Workers	30	1.11	N/A
Technical Occupations	20	0.74	N/A
Service Occupations	30	1.11	N/A
Janitors, Porters, and Cleaners	10	0.37	22
Guards and Doorkeepers	10	0.37	31
All Other Service Workers	10	0.37	N/A
Maintenance and Production Occupations	2,060	76.01	N/A
Supervisor, Nonworking	60	2.21	16
Mechanic, Maintenance	10	0.37	30
Truck Driver	10	0.37	20
Machinist	10	0.37	19
Maintenance Repairer, General Utility	10	0.37	23
Sewing Machine Operator, Regular Equipment, Nongarment	10	0.37	34
Sewing Machine Operator, Special Equipment, Nongarment	20	0.74	25
Stationary Boiler Firer	10	0.37	29
Skiver	120	4.43	16
Trimmer, Machine	20	0.74	32
Perforator Operator	20	0.74	32
Die Cutter	160	5.90	13
Floor Boy/Girl	80	2.95	18
Sorter, Leather	60	2.21	21
Splitting Machine Feeder	20	0.74	30
Splitter, Machine	30	1.11	23
Cementer, Paster, Backer, Fitter, Hand	20	0.74	33
Cutter, Hand	30	1.11	29
Gluer/Cementer, Hand	60	2.21	27
Embossing, Stamping, Marking Machine Operator	40	1.48	35
Assembler - C	90	3.32	26
All Other Skilled Workers	30	1.11	N/A
All Other Semiskilled Workers	790	29.15	N/A
All Other Unskilled Workers	350	12.92	N/A
Clerical Occupations	300	11.07	N/A
Clerical Supervisor	10	0.37	30
Bookkeeping/Billing Machine Operator	10	0.37	24
Bookkeeper, Hand	40	1.48	13
General Clerk	40	1.48	16

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Payroll/Timekeeping Clerk	10	0.37	20
Secretary	10	0.37	21
Switchboard Operator/Receptionist	10	0.37	23
All Other Office Clerical Workers	50	1.85	N/A
Shipping Packer	60	2.21	16
Shipping/Receiving Clerk	40	1.48	13
All Other Plant Clerical Workers	20	0.74	N/A
Sales Occupations	50	1.85	N/A
TOTAL	2,710	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
FOOTWEAR, EXCEPT RUBBER (SIC 314)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	380	2.60	24
Professional Occupations	200	1.37	N/A
Industrial Engineer	20	0.14	23
All Other Engineers	10	0.07	N/A
Systems Analyst, E.D.P.	20	0.14	33
Purchasing, Agent/Buyer	50	0.34	16
Personnel/Labor Relations Specialist	20	0.14	26
Designer	30	0.20	25
All Other Professional Workers	50	0.34	N/A
Technical Occupations	30	0.20	N/A
Computer Programmer	20	0.14	31
All Other Technicians	10	0.07	N/A
Service Occupations	150	1.02	N/A
Janitors, Porters, and Cleaners	80	0.55	10
Guards and Doorkeepers	40	0.27	23
All Other Service Workers	30	0.20	N/A
Maintenance and Production Occupations	11,770	80.40	N/A
Supervisor, Nonworking	330	2.25	8
Mechanic, Maintenance	20	0.14	25
Truck Driver	30	0.20	21
Carpenter	20	0.14	30
Inspector	110	0.75	21
Machinist	50	0.34	17
Maintenance Repairer, General Utility	60	0.41	22
Production Packager	350	2.39	14
Sewing Machine Operator, Regular Equipment, Nongarment	390	2.66	35
Sewing Machine Operator, Special Equipment, Nongarment	40	0.27	33
Skiver	150	1.02	11
Trimmer, Machine	170	1.16	12
Assembler for Puller-Over, Hand or Machine	140	0.96	16
Bed Laster	130	0.89	30
Bottom Filler	50	0.34	21
Buffer, Shoe Parts	130	0.89	12
Burnisher	50	0.34	17
Cementer, Machine Joiner	210	1.43	24
Perforator Operator	60	0.41	19
Cobbler	80	0.55	17
Die Cutter	490	3.35	10
Flamer	40	0.27	14
Floor Boy/Girl	540	3.69	14
Folder, Machine	30	0.20	24
Heel Attacher	60	0.41	16

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Heel Breaster, Leather	40	0.27	25
Heel-Seat Laster, Machine	60	0.41	12
Heel-Seat Fitter, Machine	30	0.20	25
Inker, Hand or Machine	60	0.41	16
Joint Cutter, Machine	20	0.14	22
Leather Stamper, Hand	20	0.14	34
Patternmaker	30	0.20	27
Puller-over	80	0.55	18
Repairer, Finish	230	1.57	15
Rough Rounder, Machine	80	0.55	14
Seam-Rubbing Machine Operator	30	0.20	21
Shank-Piece Tacker	50	0.34	14
Side Laster	130	0.89	13
Sole Leveler, Machine	40	0.27	21
Sorter, Leather	70	0.48	16
Sprayer, Hand/Machine	80	0.55	14
Stitchdown-Thread Laster	10	0.07	31
Stitcher-Special Machine	280	1.91	16
Stitcher-Standard Machine	1,790	12.23	12
Stitcher, Utility	370	2.53	26
Thermalasting-Machine Operator	40	0.27	33
Toe Laster	30	0.20	21
Treer	120	0.82	18
Conveyor Operator/Tender	40	0.27	20
Vamp Creaser	30	0.20	25
Splitter, Machine	40	0.27	15
Fastener, Machine	100	0.68	16
Cementer, Paster, Backer, Fitter- Hand	420	2.87	17
Eyelet-Machine Operator	60	0.41	16
Molder, Shoe Parts	20	0.14	34
Pulling and Lasting Machine Operator	180	1.23	29
Cutter, Hand	140	0.96	16
Gluer/Cementer, Hand	30	0.20	33
Embossing, Stamping, Marking Machine Operator	130	0.89	13
Assembler - C	200	1.37	23
All Other Skilled Workers	360	2.46	N/A
All Other Semiskilled Workers	1,450	9.90	N/A
All Other Unskilled Workers	1,150	7.86	N/A
Clerical Occupations	1,820	12.43	N/A
Clerical Supervisor	70	0.48	27
Bookkeeping/Billing Machine Operator	30	0.20	26
Computer Operator	30	0.20	25
All Other Office Machine Operators	140	0.96	N/A
Accounting Clerk	110	0.75	26
Bookkeeper, Hand	60	0.41	18
File Clerk	30	0.20	21
General Clerk	250	1.71	26
Payroll/Timekeeping Clerk	130	0.89	6

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Personnel Clerk	10	0.07	27
Procurement Clerk	20	0.14	26
Secretary	80	0.55	30
Switchboard Operator/Receptionist	40	0.27	14
Typist	80	0.55	31
All Other Office Clerical Workers	340	2.32	N/A
Production Clerk	40	0.27	19
Shipping Packer	180	1.23	15
Shipping/Receiving Clerk	90	0.61	10
All Other Plant Clerical Workers	210	1.43	N/A
Sales Occupations	290	1.98	N/A
Sales Representatives	240	1.64	26
All Other Sales Workers	50	0.34	N/A
TOTAL	14,640	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
HANDBAGS AND OTHER PERSONAL LEATHER GOODS (SIC 317)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	90	3.47	11
Professional Occupations	60	2.32	N/A
Industrial Engineer	10	0.39	17
Designer	20	0.77	21
All Other Professional Workers	30	1.16	N/A
Technical Occupations	10	0.39	N/A
Service Occupations	30	1.16	N/A
Janitors, Porters and Cleaners	20	0.77	18
All Other Service Workers	10	0.39	N/A
Maintenance and Production Occupations	1,990	76.83	N/A
Supervisor, Nonworking	100	3.86	14
Mechanic, Maintenance	10	0.39	23
Inspector	100	3.86	13
Order Filler	10	0.39	49
Production Packager	90	3.47	37
Sewing Machine Operator, Reg.Equip., Non-Garment	210	8.11	25
Sewing Machine Operator, Special Equip. , Non-Garment	30	1.16	11
Skiver	30	1.16	14
Cementer, Machine Joiner	20	0.77	24
Die Cutter	100	3.86	14
Flamer	10	0.39	1
Floor Boy/Girl	80	3.09	30
Glue-Spreading Machine Operator	30	1.16	40
Repairer, Finisher	40	1.54	33
Stainer	10	0.39	26
Stitcher,Standard Machine	150	5.79	24
Stitcher, Utility	10	0.39	48
Riveter, Light	10	0.39	40
Eyelet-Machine Operator	10	0.39	41
Gluer/Cementer, Hand	40	1.54	36
Handbag Framer	40	1.54	14
Embossing, Stamping, Marking Machine Operator	20	0.77	33
Assembler - B	150	5.79	4
Assembler - C	260	10.04	32
All Other Skilled Workers	30	1.16	N/A
All Other Semiskilled Workers	280	10.81	N/A
All Other Unskilled Workers	120	4.63	N/A
Clerical Occupations	320	12.36	N/A
Clerical Supervisor	30	1.16	12
Keypunch Operator	20	0.77	22
Accounting Clerk	20	0.77	13

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Bookkeeper, Hand	10	0.39	22
Order Clerk	30	1.16	14
Payroll/Timekeeping Clerk	20	0.77	16
Secretary	20	0.77	15
Switchboard Operator/Receptionist	10	0.39	16
All Other Office Clerical Occupations	70	2.70	N/A
Shipping Packer	40	1.54	15
Shipping/Receiving Clerk	20	0.77	20
Stock Clerk, Storeroom	20	0.77	40
All Other Plant Clerical Workers	10	0.39	N/A
Sales Occupations	90	3.47	N/A
TOTAL	2,590	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
GLASS AND GLASSWARE (SIC 321,322,323)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	70	4.24	27
Professional Occupations	30	1.82	N/A
Mechanical Engineers	10	0.61	45
All Other Professional Workers	20	1.21	N/A
Technical Occupations	20	1.21	N/A
Technicians	10	0.61	N/A
All Other Technical Workers	10	0.61	N/A
Service Occupations	60	3.64	N/A
Janitors, Porters, and Cleaners	40	2.42	43
All Other Service Workers	20	1.21	N/A
Maintenance and Production Occupations	1,340	81.21	N/A
Truck Driver	10	0.61	20
Electrician	10	0.61	27
Industrial Truck Operator	60	3.64	18
Inspector	40	2.42	49
Maintenance Repairer, General Utility	60	3.64	49
Production Packager	140	8.48	24
Furnace/Tank Operator	10	0.61	16
Forming Machine Operator, Glass	80	4.85	20
Forming Machine Maintainer	40	2.42	22
Polisher, Mold	10	0.61	18
Selector, Glassware	330	20.00	18
Cullet Crusher and Washer	10	0.61	31
Metal Mold Maker/Repairer	30	1.82	13
Floor Boy/Girl	30	1.82	20
Assembler	80	4.85	39
All Other Skilled Workers	130	7.88	N/A
All Other Semiskilled Workers	220	13.33	N/A
All Other Unskilled Workers	50	3.03	N/A
Clerical Occupations	110	6.67	N/A
Accounting Clerk	20	1.21	47
Bookkeeper, Hand	20	1.21	43
Order Clerk	10	0.61	45
Secretary	10	0.61	46
All Other Clerical Workers	50	3.03	N/A
Sales Occupations	20	1.21	N/A
TOTAL	1,650	100.00	N/A

N/A Relative Error Not Available
Note: May not add to totals due to rounding.

RANKED OCCUPATIONAL EMPLOYMENT IN GLASS AND GLASSWARE INDUSTRY

SIC 321,322,323

	OCCUPATION	EMPLOYMENT
1.	Selector, Glassware	330
2.	All Other Semiskilled Workers	220
3.	Production Packager	140
4.	All Other Skilled Workers	130
5.	Forming Machine Operator, Glass	80
6.	Assembler	80
7.	Managers and Officers	70
8.	Industrial Truck Operator	60
9.	Maintenance Repairer, General Utility	60
10.	All Other Unskilled Workers	50
		1,220

These 10 occupations make up 74% of total industry employment.

OCCUPATIONS OF EMPLOYEES
CEMENT,CLAY,POTTERY,CONCRETE,STONE, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS
(SIC 324,325,326,327,328,and 329)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	660	6,90	9
Professional Occupations	540	5.64	N/A
Mechanical Engineer	10	0.10	23
All Other Engineers	220	2.30	N/A
Systems Analyst, EDP	20	0.21	34
Purchasing Agent/Buyer	20	0.21	21
Accountant/Auditor	80	0.84	11
Nurse, Professional	10	0.10	36
Personnel/Labor Relations Specialist	20	0.21	26
All Other Professional Workers	160	1.67	N/A
Technical Occupations	240	2.51	N/A
Computer Programmer	30	0.31	34
Drafter	70	0.73	19
Mechanical Engineering Technician	60	0.63	34
Industrial Engineering Technician	50	0.52	19
All Other Engineering Technicians	30	0.31	28
Service Occupations	140	1.46	N/A
Supervisor, Nonworking	20	0.21	26
Janitors, Porters, and Cleaners	100	1.04	13
Guards and Doorkeepers	20	0.21	21
Maintenance and Production Occupations	6,270	65.52	N/A
Supervisor, Nonworking	310	3.24	8
Mechanic, Automotive	110	1.15	11
Mechanic, Maintenance	220	2.30	7
All Other Mechanics and Repairers	30	0.31	13
Truck Driver	640	6.69	11
Carpenter	20	0.21	22
Concrete Rubber	30	0.31	31
Crane/Derrick/Hoist Operator	20	0.21	22
Delivery/Route Worker	30	0.31	32
Electrician	30	0.31	26
Heavy Equipment Operator	80	0.84	31
Industrial Truck Operator	160	1.67	9
Inspector	120	1.25	17
Machinist	40	0.42	23
Maintenance Repairer, General Utility	70	0.73	22
Millwright	10	0.10	21
Oiler	10	0.10	36
Order Filler	20	0.21	47
Painter, Maintenance	10	0.10	36
Pipe Stripper	20	0.21	23
Plumber/Pipefitter	20	0.21	24

SIC 324,325,326,327,328, and 329 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Refractory Materials Repairer	10	0.10	36
Sheet Metal Worker	30	0.31	34
Stationary Boiler Firer	10	0.10	35
Stationary Engineer	10	0.10	24
Welder/Flamecutter	60	0.63	18
Abrasive Grinder	280	2.93	16
Blockmaking Machine Operator	60	0.63	19
Brick and Tile Machine Operator	10	0.10	31
Cage Maker	20	0.21	20
Concrete Pipe Maker	140	1.46	41
Concrete-Stone Fabricator	120	1.25	22
Contour Grinder	10	0.10	41
Drill Press Operator	10	0.10	17
Grinding Machine Operator, Metal	30	0.31	22
Kiln Operator	150	1.57	15
Lathe Operator, Grinding Wheels	30	0.31	22
Machine Tool Operator, Combination	30	0.31	10
Machine Tool Setter, Metal	10	0.10	36
Sandblaster, Stone	20	0.21	38
Sawyer, Stone	20	0.21	38
Screening Operator	100	1.04	28
Setter/Drawer	90	0.94	30
Splitter	20	0.21	49
Stencil Cutter	30	0.31	49
Stone Cutter, Hand	20	0.21	37
Stone Polisher	20	0.21	40
Tester	70	0.73	14
Press Operator	380	3.97	19
Painter, Production	20	0.21	34
Conveyor Operator/Tender	10	0.10	34
Mixer,Stone/Clay/Glass	130	1.36	14
Concrete Vault Maker	50	0.52	31
Mill/Grinder Operator, Minerals	90	0.94	20
Screen/Stencil Printer/Setter	20	0.21	N/A
Assembler	200	2.09	45
Batch Plant Operator	80	0.84	8
All Other Skilled Workers	130	1.36	N/A
All Other Semiskilled Workers	890	9.30	N/A
All Other Unskilled Workers	860	8.99	N/A
Clerical Occupations	1,610	16.82	N/A
Clerical Supervisor	90	0.94	27
Computer Operator	10	0.10	41
Keypunch Operator	30	0.31	16
Stenographer	10	0.10	36
Accounting Clerk	70	0.73	13
Bookkeeper, Hand	90	0.94	14
File Clerk	40	0.42	35
General Clerk, Office	330	3.45	6
Order Clerk	20	0.21	20

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Payroll/Timekeeping Clerk	100	1.04	27
Personnel Clerk	10	0.10	30
Secretary	170	1.78	14
Switchboard Operator	10	0.10	31
Typist	50	0.52	25
All Other Office Clerical Workers	200	2.09	N/A
Production Clerk/Coordinator	30	0.31	15
Shipping Packer	210	2.19	7
Shipping/Receiving Clerk	50	0.52	34
Stock Clerk	40	0.42	17
Dispatcher, Vehicle	50	0.52	13
Sales Occupations	110	1.15	N/A
TOTAL	9,570	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

RANKED OCCUPATIONAL EMPLOYMENT IN CEMENT, CLAY, POTTERY, CONCRETE, STONE, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS INDUSTRIES

SIC 324, 325, 326, 327, 328, and 329

	OCCUPATION	EMPLOYMENT
1.	All Other Semiskilled Workers	890
2.	All Other Unskilled Workers	860
3.	Managers and Officers	660
4.	Truck Driver	640
5.	Press Operator	380
6.	General Clerk, Office	330
7.	Supervisor, Nonworking	310
8.	Abrasive Grinder	280
9.	All Other Engineers	220
10.	Mechanic, Maintenance	220
		4,790

These 10 occupations make up 50% of total industry employment.

OCCUPATIONS OF EMPLOYEES
GLASS AND GLASSWARE, PRESSED AND BLOWN (SIC 322)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	60	4.72	32
Professional Occupations	20	1.57	N/A
Technical Occupations	10	0.79	N/A
Service Occupations	60	4.72	N/A
Maintenance and Production Occupations	1,070	84.25	N/A
Electrician	10	0.79	27
Industrial Truck Operator	60	4.72	18
Production Packager	140	11.02	24
Furnace/Tank Operator	10	0.79	16
Forming Machine Operator, Glass	80	6.30	20
Forming Machine Maintainer, Glass	40	3.15	22
Polisher, Mold	10	0.79	18
Selector, Glass	320	25.20	19
Cullet Crusher/Washer	10	0.79	31
Metal Mold Maker/Repairer	30	2.36	13
Floor Boy/Girl	30	2.36	20
All Other Skilled Workers	60	4.72	N/A
All Other Semiskilled Workers	240	18.90	N/A
All Other Unskilled Workers	30	2.36	N/A
Clerical Occupations	50	3.94	N/A
TOTAL	1,270	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
CONCRETE, GYPSUM, AND PLASTER PRODUCTS (SIC 327)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	220	9.13	6
Professional Occupations	10	0.41	N/A
Technical Occupations	20	0.83	N/A
Service Occupations	20	0.83	N/A
Janitors, Porters, and Cleaners	10	0.41	13
All Other Service Workers	10	0.41	N/A
Maintenance and Production Occupations	1,820	75.52	N/A
Supervisor, Nonworking	80	3.32	14
Mechanic, Automotive	110	4.56	12
Mechanic, Maintenance	40	1.66	15
Truck Driver	570	23.65	12
Concrete Rubber	30	1.24	31
Delivery and Route Workers	30	1.24	32
Heavy Equipment Operator	50	2.07	22
Industrial Truck Operator	80	3.32	14
Maintenance Repairer, General Utility	40	1.66	12
Pipe Stripper	20	0.83	23
Welders and Flamecutters	30	1.24	14
Blockmaking Machine Operator	60	2.49	19
Cage Maker	20	0.83	20
Concrete-Stone Fabricator	120	4.98	23
Kiln Operator	30	1.24	17
Concrete-Vault Maker	50	2.07	31
Batch Plant Operator	80	3.32	8
All Other Skilled Workers	10	0.41	N/A
All Other Semiskilled Workers	190	7.88	N/A
All Other Unskilled Workers	180	7.47	N/A
Clerical Occupations	240	9.96	N/A
Accounting Clerk	30	1.24	15
Bookkeeper, Hand	70	2.90	10
General Clerk	70	2.90	13
Secretary	20	0.83	15
Dispatcher, Vehicle	50	2.07	13
Sales Occupations	80	3.32	N/A
TOTAL	2,410	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
ABRASIVE, ASBESTOS, AND MISCELLANEOUS NONMETALIC MINERAL PRODUCTS (SIC 329)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	340	5.37	17
Professional Occupations	500	7.90	N/A
Engineers	210	3.32	N/A
Systems Analyst, E.D.P.	20	0.32	34
Purchasing Agent/Buyer	10	0.16	25
Accountants/Auditors	70	1.11	12
Personnel/Labor Relations Specialist	20	0.32	26
All Other Professional Workers	170	2.69	N/A
Technical Occupations	180	2.84	N/A
Computer Programmer	30	0.47	34
Drafter	20	0.32	24
Mechanical Engineering Technician	60	0.95	34
Industrial Engineering Technician	50	0.79	19
All Other Engineering Technicians	20	0.32	35
Service Occupations	120	1.90	N/A
Supervisor, Nonworking Service	20	0.32	26
Janitors, Porters, Cleaners	80	1.26	16
Guards and Doorkeepers	20	0.32	23
Maintenance and Production Occupations	3,870	61.14	N/A
Supervisor, Nonworking	200	3.16	11
Mechanic, Maintenance	170	2.69	7
All Other Mechanics and Repairers	30	0.47	N/A
Truck Driver	30	0.47	14
Carpenter	20	0.32	22
Electrician	30	0.47	26
Industrial Truck Operator	60	0.95	12
Inspector	100	1.58	20
Machinist	30	0.47	25
Millwright	10	0.16	21
Plumber/Pipefitter	20	0.32	24
Sheet Metal Workers	30	0.47	34
Stationary Boiler Firer	10	0.16	35
Welders and Flamecutters	30	0.47	35
Abrasive Grinder	280	4.42	16
Brick and Tile Machine Operator	10	0.16	33
Drill Press Operator	10	0.16	17
Grinding Machine Operator, Metal	20	0.32	34
Kiln Operator	100	1.58	23
Lathe Operator, Grinding Wheel	30	0.47	22
Screener Operator	100	1.58	28
Setter/Drawer	90	1.42	31

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Tester	70	1.11	14
Press Operator	380	6.00	19
Painter, Production	20	0.32	34
Conveyor Operator/Tender	10	0.16	34
Mixer, Stone, Clay, Glass	130	2.05	15
Mill/Grinder Operator	90	1.42	20
All Other Skilled Workers	100	1.58	N/A
All Other Semiskilled Workers	1,020	16.11	N/A
All Other Unskilled Workers	640	10.11	N/A
Clerical Occupations	1,310	20.70	N/A
Clerical Supervisors	90	1.42	27
Computer Operator	10	0.16	41
Keypunch Operator	30	0.47	16
Accounting Clerk	40	0.63	22
File Clerk	40	0.63	35
General Clerk	240	3.79	7
Order Clerk	20	0.32	20
Payroll/Timekeeping Clerk	100	1.58	27
Secretary	130	2.05	18
Typist	50	0.79	26
All Other Office Clerical Occupations	230	3.63	N/A
Production Clerk	30	0.47	15
Shipping Packer	210	3.32	7
Shipping/Receiving Clerk	50	0.79	34
Stock Clerk, Storeroom	40	0.63	17
Sales Occupations	10	0.16	N/A
TOTAL	6,330	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
FABRICATED METAL PRODUCTS (EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT (SIC 34)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	3,780	7.37	4
Professional Occupations	3,040	5.92	N/A
Civil Engineer	20	0.04	32
Industrial Engineer	120	0.23	21
Mechanical Engineer	770	1.50	9
Metallurgical Engineer	50	0.10	14
All Other Engineers	450	0.88	N/A
Mathematical Scientist	20	0.04	5
Chemist	120	0.23	8
All Other Physical Scientists	20	0.04	N/A
Systems Analyst, EDP	100	0.19	11
Purchasing Agent/Buyer	220	0.43	9
Accountant/Auditor	470	0.92	6
Cost Estimator	140	0.27	15
Writer/Editor	20	0.04	29
Nurse, Professional	50	0.10	12
Personnel/Labor Relations Specialist	90	0.18	13
Designer	50	0.10	22
All Other Professional Workers	330	0.64	N/A
Technical Occupations	1,460	2.85	N/A
Computer Programmer	90	0.18	13
Drafter	590	1.15	12
Tool Programmer, Numerical Control	30	0.06	32
Engineering Technicians	600	1.17	N/A
Science Technicians	40	0.08	10
All Other Technicians	110	0.21	24
Service Occupations	860	1.68	N/A
Supervisor, Nonworking Service	40	0.08	28
Janitors, Porters, and Cleaners	560	1.09	10
Guards and Doorkeepers	190	0.37	20
Food Service Workers	50	0.10	10
All Other Service Workers	20	0.04	26
Maintenance and Production	34,210	66.67	N/A
Supervisor, Nonworking	1,380	2.69	7
Mechanic, Automotive	40	0.08	21
Mechanic, Maintenance	450	0.88	14
All Other Mechanics and Repairers	50	0.10	30
Truck Driver	410	0.80	10
Carpenter	70	0.14	21
Electrician	210	0.41	13
Filers/Grinders/Buffers/Polishers	790	1.54	24
Industrial Truck Operator	360	0.70	13

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Inspector	1,830	3.57	4
Machinist	1,040	2.03	28
Maintenance Repairer, General Utility	150	0.29	23
Helper, Trades	490	0.95	13
Millwright	170	0.33	32
Oiler	70	0.14	17
Painter, Maintenance	20	0.04	30
Electroplater	680	1.33	13
Plumber/Pipefitter	100	0.19	23
Production Packager	880	1.72	15
Sandblaster/Shotblaster	100	0.19	30
Sheet Metal Worker	800	1.56	24
Stationary Boiler Firer	30	0.06	27
Stationary Engineer	50	0.10	15
Tool and Die Maker	590	1.15	12
Die Setter	40	0.08	29
Die Sinker	140	0.27	25
Drill Press Operator	790	1.54	23
Grinding Machine Operator, Metal	600	1.17	28
Heat Treater/Annealer/Temperer	180	0.35	25
Lathe Operator, Metal	1,260	2.46	14
Lay-out Marker, Metal	220	0.43	18
Machine Tool Operator, Combination	1,580	3.08	25
Machine Tool Operator, Numerical Control	60	0.12	35
Machine Tool Operator, Toolroom	170	0.33	21
Plater Helper	500	0.97	19
Sawyer, Metal	70	0.14	34
Tester	290	0.57	12
Painter, Production	600	1.17	13
Punch Press Operator, Metal	1,880	3.66	12
Punch Press Setter, Metal	190	0.37	25
Shear/Slitter Operator, Metal	340	0.66	14
Shear/Slitter Setter	40	0.08	33
Dip Plater, Non-Electrolytic	140	0.27	19
Furnace Operator/Cupola Tender	60	0.12	31
Fitter, Structural Metal	160	0.31	34
Bodymaker Operator, TinCan	20	0.04	33
Furnace Operator Helper	30	0.06	31
Power Brake/Bending Machine Operator	330	0.64	21
Welder, Class A	540	1.05	32
Welder, Class B	540	1.05	18
Welder, Class C	470	0.92	34
Assembler, Class A	670	1.31	25
Assembler, Class C	2,100	4.09	14
All Other Skilled Workers	780	1.52	N/A
All Other Semiskilled Workers	5,600	10.91	N/A
All Other Unskilled Workers	3,060	5.96	N/A
Clerical Occupations	6,130	11.95	N/A
Clerical Supervisor	100	0.19	15

SIC 34 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Computer Operator	110	0.21	14
Keypunch Operator	160	0.31	12
All Other Office Machine Operators	90	0.18	N/A
Stenographer	70	0.14	10
Accounting Clerk	420	0.82	8
Bookkeeper, Hand	370	0.72	10
File Clerk	60	0.12	14
General Clerk, Office	600	1.17	10
Order Clerk	140	0.27	16
Payroll/Timekeeping Clerk	180	0.35	10
Personnel Clerk	70	0.14	13
Procurement Clerk	70	0.14	14
Receptionist	30	0.06	28
Secretary	1,100	2.14	5
Statistical Clerk	50	0.10	15
Switchboard Operator	30	0.06	18
Switchboard Operator/Receptionist	120	0.23	12
Typist	270	0.53	13
All Other Office Clerical Workers	440	0.86	6
Production Clerk/Coordinator	380	0.74	15
Shipping Packer	350	0.68	13
Shipping/Receiving Clerk	350	0.68	15
Stock Clerk	480	0.94	8
All Other Plant Clerical Workers	90	0.18	22
Sales Occupations	1,830	3.57	N/A
Sales Representatives	1,790	3.49	6
All Other Sales Occupations	40	0.08	N/A
TOTAL	51,310	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

RANKED OCCUPATIONAL EMPLOYMENT IN THE FABRICATED METAL PRODUCTS

SIC 34

	OCCUPATION	EMPLOYMENT
1.	All Other Semiskilled Workers	5,600
2.	Managers and Officers	3,780
3.	All Other Unskilled Workers	3,060
4.	Assembler, Class - C	2,100
5.	Punch Press Operator, Metal	1,880
6.	Inspector	1,830
7.	Sales Representatives	1,790
8.	Machine Tool Operator, Combination	1,580
9.	Supervisor, Nonworking	1,380
10.	Lathe Operator, Metal	1,260
		24,260

These 10 occupations make up 47% of total industry employment.

OCCUPATIONS OF EMPLOYEES
METAL CANS AND SHIPPING CONTAINERS (SIC 341)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	40	3.39	7
Professional Occupations	40	3.39	N/A
Technical Occupations	10	0.85	N/A
Service Occupations	10	0.85	N/A
Maintenance and Production Occupations	1,000	84.75	N/A
Supervisor, Nonworking	60	5.08	10
Truck Driver	30	2.54	29
Electrician	20	1.69	16
Industrial Truck Operator	40	3.39	26
Inspector	50	4.24	42
Machinist	40	3.39	12
Production Packager	80	6.78	12
Sheet Metal Worker	20	1.69	1
Tool & Die Maker	10	0.85	24
Painter, Production	20	1.69	43
Dip Plater	20	1.69	1
Body Maker Operator, Tin Can	20	1.69	33
Welders - B	10	0.85	1
Assembler - A	20	1.69	24
Assembler - C	10	0.85	1
All Other Skilled Workers	40	3.39	N/A
All Other Semiskilled Workers	270	22.88	N/A
All Other Unskilled Workers	240	20.34	N/A
Clerical Occupations	60	5.08	N/A
General Clerk	10	0.85	12
All Other Office Clerical Occupations	30	2.54	N/A
Shipping/Receiving Clerk	10	0.85	32
All Other Plant Clerical Occupations	10	0.85	N/A
Sales Occupations	20	1.69	N/A
TOTALS	1,180	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
CUTLERY, HAND TOOLS, AND GENERAL HARDWARE (SIC 342)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,100	8.51	6
Professional Occupations	1,250	9.67	N/A
Electrical Engineer	30	0.23	24
Industrial Engineer	40	0.31	22
Mechanical Engineer	320	2.48	19
All Other Engineers	70	0.54	N/A
Mathematical Scientist	20	0.15	5
Chemist	80	0.62	5
All Other Physical Scientists	20	0.15	N/A
Systems Analyst,E.D.P.	60	0.46	4
Purchasing Agent/Buyer	50	0.39	17
Accountants/Auditors	240	1.86	8
Writer/Editor	10	0.08	24
Nurse, Professional	10	0.08	10
Personnel/Labor Relations Specialist	30	0.23	27
Designer	10	0.08	5
All Other Professional Occupations	260	2.01	N/A
Technical Occupations	420	3.25	N/A
Computer Programmer	50	0.39	7
Drafter	80	0.62	46
Electrical & Electronic Technicians	60	0.46	45
Mechanical Engineering Technicians	40	0.31	28
All Other Engineering Technicians	100	0.77	N/A
Science Technicians	30	0.23	5
All Other Technicians	60	0.46	36
Service Occupations	230	1.78	N/A
Supervisor, Nonworking Service	20	0.15	25
Janitors, Porters, and Cleaners	130	1.01	16
Guards and Doorkeepers	40	0.31	5
Food Service Workers	40	0.31	5
Maintenance and Production Occupations	6,490	50.23	N/A
Supervisor, Nonworking	280	2.17	19
Mechanic, Maintenance	210	1.63	5
All Other Mechanics and Repairers	10	0.08	3
Truck Driver	30	0.23	50
Carpenter	10	0.08	15
Electrician	50	0.39	7
Industrial Truck Operator	20	0.15	49
Inspectors	520	4.02	6
Millwright	20	0.15	16
Order Filler	60	0.46	38
Painter, Maintenance	10	0.08	13

SIC 342 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Plumber/Pipefitter	10	0.08	4
Production Packager	260	2.01	32
Stationary Engineer	20	0.15	3
Tool and Die Maker	40	0.31	47
Heat Treater, Annealer	90	0.70	40
Milling/Planing Machine Operator	70	0.54	44
Tester	150	1.16	6
Punch-Press Operator, Metal	200	1.55	39
Assembler - C	450	3.48	27
All Other Skilled Workers	590	4.56	N/A
All Other Semiskilled Workers	2,240	17.32	N/A
All Other Unskilled Workers	1,150	8.89	N/A
Clerical Occupations	2,230	17.25	N/A
Clerical Supervisor	60	0.46	13
Computer Operator	50	0.39	18
Keypunch Operator	70	0.54	8
All Other Office Machine Operators	20	0.15	N/A
Stenographer	30	0.23	11
Accounting Clerk	180	1.39	7
File Clerk	40	0.31	6
General Clerk	130	1.01	30
Order Clerk	60	0.46	21
Payroll/Timekeeping Clerk	40	0.31	19
Personnel Clerk	20	0.15	11
Procurement Clerk	20	0.15	14
Secretary	490	3.79	7
Statistical Clerk	30	0.23	2
Switchboard Operator/Receptionist	30	0.23	32
Typist	70	0.54	30
All Other Office Clerical Workers	400	3.09	N/A
Production Clerk	60	0.46	17
Shipping Packer	110	0.85	34
Stock Clerk, Storeroom	250	1.93	7
All Other Plant Clerical Workers	70	0.54	N/A
Sales Occupations	1,200	9.28	N/A
TOTAL	12,920	100.00	N/A

N/A Relative Error Not Available
Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
METAL SERVICES N.E.C. (SIC 347)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	370	9.54	4
Professional Occupations	90	2.32	N/A
Mechanical Engineer	20	0.52	21
All Other Engineers	10	0.26	N/A
Chemist	20	0.52	25
Accountants/Auditors	20	0.52	15
All Other Professional Workers	20	0.52	N/A
Technical Occupations	40	1.03	N/A
Drafter	10	0.26	32
All Other Technicians	30	0.77	N/A
Service Occupations	60	1.55	N/A
Janitors, Porters, and Cleaners	50	1.29	17
All Other Service Workers	10	0.26	N/A
Maintenance and Production Occupations	2,900	74.74	N/A
Supervisor, Nonworking	90	2.32	14
Truck Driver	70	1.80	11
Filers, Grinders	240	6.19	15
Inspector	130	3.35	10
Machinist	50	1.29	28
Maintenance Repairer, General Utility	30	0.77	18
Helper, Trades	40	1.03	19
Electroplater	560	14.43	14
Production Packager	60	1.55	24
Sand/Shotblaster	10	0.26	26
Tool and Die Maker	10	0.26	33
Etcher/Engraver	40	1.03	31
Machine Tool Setter, Metal	10	0.26	32
Plater Helper	300	7.73	14
Tester	20	0.52	19
Painter,Production	310	7.99	17
Punch-Press Operator, Metal	40	1.03	32
Shear/Slitter Operator, Metal	20	0.52	24
Dip Plater, Nonelectrolytic	90	2.32	26
All Other Skilled Workers	80	2.06	N/A
All Other Semiskilled Workers	440	11.34	N/A
All Other Unskilled Workers	260	6.70	N/A
Clerical Occupations	370	9.54	N/A
Accounting Clerk	30	0.77	19
Bookkeeper, Hand	60	1.55	10
General Clerk	90	2.32	10
Secretary	50	1.29	10
Typist	10	0.26	31

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
All Other Office Clerical Workers	30	0.77	N/A
Production Clerk	20	0.52	23
Shipping, Packer	30	0.77	23
Shipping/Receiving Clerk	40	1.03	12
All Other Plant Clerical Workers	10	0.26	N/A
Sales Occupations	50	1.29	N/A
TOTAL	3,880	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
ENGINES AND TURBINES (SIC 351)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	370	5.89	2
Professional Occupations	1,000	15.92	N/A
Electrical/Electronic Engineer	20	0.32	12
Industrial Engineer	90	1.43	42
Mechanical Engineer	270	4.30	10
All Other Engineers	30	0.48	N/A
Systems Analyst, Business	10	0.16	9
Purchasing Agent/Buyer	20	0.32	20
Accountants/Auditors	60	0.96	15
Nurse, Professional	10	0.16	3
Personnel/Labor Relations Specialist	10	0.16	5
Designer	180	2.87	13
All Other Professional Workers	300	4.78	13
Technical Occupations	270	4.30	N/A
Computer Programmer	10	0.16	23
Drafter	110	1.75	47
Mechanical Engineering Technician	10	0.16	38
Tool Programmer, Numerical Control	30	0.48	29
Industrial Engineering Technician	80	1.27	8
All Other Engineering Technicians	20	0.32	N/A
All Other Technicians	10	0.16	N/A
Service Occupations	130	2.07	N/A
Janitors, Porters, and Cleaners	90	1.43	10
Guards and Doorkeepers	40	0.64	14
Maintenance and Production Occupations	3,740	59.55	N/A
Supervisor, Nonworking	160	2.55	2
Mechanic, Automotive	10	0.16	13
Mechanic, Maintenance	110	1.75	14
All Other Mechanics and Repairers	170	2.71	N/A
Truck Driver	20	0.32	5
Carpenter	30	0.48	11
Crane, Derrick, and Hoist Operator	70	1.11	14
Electrician	90	1.43	12
Filers, Grinders	130	2.07	11
Gear Forming Machine Operator	90	1.43	14
Rigger	60	0.96	6
Industrial Truck Operator	80	1.27	2
Inspector	220	3.50	7
Machinist	160	2.55	12
Painter,Maintenance	20	0.32	14
Plumber/Pipefitter	90	1.43	8
Sand/Shotblaster	30	0.48	11
Sheet Metal Worker	30	0.48	35

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Stationary Boiler Firer	30	0.48	10
Stationary Engineer	10	0.16	14
Tool and Die Maker	20	0.32	8
Drill-Press Operator	100	1.59	16
Grinding Machine Operator	130	2.07	6
Heat Treater, Annealer	20	0.32	14
Lathe Machine Operator, Metal	260	4.14	2
Lay-out Marker, Metal	20	0.32	3
Machine Tool Operator, Combination	70	1.11	9
Machine Tool Operator, Numerical Control	170	2.71	8
Machine Tool Operator, Tool Room	10	0.16	12
Milling/Planing Machine Operator	170	2.71	6
Sawyer, Metal	10	0.16	14
Tester	70	1.11	14
Woodworking Machine Operator	30	0.48	13
Painter, Production	20	0.32	10
Coil Winder	10	0.16	14
Balancing Machine Operator	20	0.32	20
Welders - A	70	1.11	14
Welders - B	150	2.39	3
Machine Assemblers - A	290	4.62	7
Electro-Mechanical Equipment Assembler - A	40	0.64	13
Machine Assembler - B	30	0.48	14
Electrical/Electronic Assembler - B	20	0.32	14
All Other Skilled Workers	110	1.75	N/A
All Other Semiskilled Workers	130	2.07	N/A
All Other Unskilled Workers	160	2.55	N/A
Clerical Occupations	770	12.26	N/A
Clerical Supervisor	20	0.32	34
Computer Operator	10	0.16	20
Keypunch Operator	40	0.64	7
All Other Office Machine Operators	20	0.32	N/A
Stenographer	70	1.11	6
Accounting Clerk	30	0.48	8
General Clerk	60	0.96	15
Payroll/Timekeeping Clerk	10	0.16	16
Procurement Clerk	10	0.16	25
Secretary	110	1.75	7
Typist	30	0.48	11
All Other Office Clerical Workers	90	1.43	N/A
Production Clerk	100	1.59	7
Shipping Packer	10	0.16	11
Shipping/Receiving Clerk	20	0.32	10
Stock Clerk, Storeroom	90	1.43	8
All Other Plant Clerical Workers	50	0.80	14
TOTAL	6,280	100.00	N/A

N/A Relative Error Not Available.

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
CONSTRUCTION AND RELATED MACHINERY (SIC 353)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	80	7.92	10
Professional Occupations	80	7.92	N/A
Mechanical Engineer	30	2.97	20
All Other Engineers	20	1.98	N/A
Accountants/Auditors	20	1.98	20
All Other Professional Workers	10	0.99	N/A
Technical Occupations	50	4.95	N/A
Drafter	40	3.96	22
All Other Technicians	10	0.99	N/A
Service Occupations	10	0.99	N/A
Maintenance and Production Occupations	630	62.38	N/A
Supervisor, Nonworking	30	2.97	19
Tool and Die Maker	20	1.98	22
Drill-Press Operator	20	1.98	22
Grinding Machine Operator, Metal	30	2.97	33
Lathe Machine Operator, Metal	30	2.97	21
Lay-out Marker, Metal	30	2.97	13
Machine Tool Operator, Combination	40	3.96	25
Machine Tool Operator, Numerical Control	10	0.99	29
Milling/Planing Machine Operator	10	0.99	29
Painter, Production	20	1.98	19
Welders - A	30	2.97	29
Welders - B	50	4.95	26
Welders - C	20	1.98	26
Machine Assembler - A	20	1.98	26
Machine Assembler - B	20	1.98	15
Assembler - C	40	3.96	31
All Other Skilled Workers	110	10.89	N/A
All Other Semiskilled Workers	90	8.91	N/A
All Other Unskilled Workers	10	0.99	N/A
Clerical Occupations	130	12.87	N/A
General Clerk	30	2.97	18
Secretary	30	2.97	11
All Other Office Clerical Workers	20	1.98	N/A
Production Clerk	10	0.99	13
Stock Clerk, Storeroom	20	1.98	19
All Other Plant Clerical Workers	20	1.98	N/A
Sales Occupations	30	2.97	15
TOTAL	1,010	100.00	N/A

N/A Relative Error Not Available
Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
HOUSEHOLD APPLIANCES (SIC 363)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	90	7.03	25
Professional Occupations	80	6.25	N/A
Technical Occupations	30	2.34	N/A
Service Occupations	20	1.56	N/A
Maintenance and Production Occupations	900	70.31	N/A
Supervisor, Nonworking	60	4.69	16
Electrician	10	0.78	12
Machinist	20	1.56	24
Tool and Die Maker	30	2.34	22
Machine Tool Setter, Metal	30	2.34	22
All Other Skilled Workers	10	0.78	N/A
All Other Semiskilled Workers	460	35.94	N/A
All Other Unskilled Workers	280	21.88	N/A
Clerical Occupations	140	10.94	N/A
Secretary	20	1.56	32
All Other Office Clerical Workers	80	6.25	N/A
Production Clerk	20	1.56	32
All Other Plant Clerical Workers	20	1.56	N/A
Sales Occupations	20	1.56	N/A
TOTAL	1,280	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
COMMUNICATIONS EQUIPMENT (SIC 366)

Reference Date June 1977

OCCUPATIONS	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,250	5.04	18
Professional Occupations	6,040	24.36	N/A
Electrical/Electronic Engineer	3,440	13.88	25
Industrial Engineer	190	0.77	21
All Other Engineers	520	2.10	N/A
Systems Analyst, Business	150	0.61	20
Systems Analyst, Scientific	90	0.36	20
Purchasing Agent/Buyer	140	0.56	25
Nurse, Professional	20	0.08	11
Personnel/Labor Relations Specialist	70	0.28	20
All Other Professional Workers	1,420	5.73	N/A
Technical Occupations	2,280	9.20	N/A
Drafter	520	2.10	9
Electrical/Electronic Technicians	1,100	4.44	25
Mechanical Engineering Technicians	110	0.44	33
All Other Technicians	550	2.22	N/A
Service Occupations	370	1.49	N/A
Supervisor, Nonworking, Service	30	0.12	19
Guards and Doorkeepers	190	0.77	18
All Other Service Workers	150	0.61	N/A
Maintenance and Production Occupations	10,610	42.80	N/A
Supervisor, Nonworking	560	2.26	13
Mechanic, Maintenance	80	0.32	7
All Other Mechanics and Repairers	40	0.16	N/A
Truck Driver	10	0.04	35
Carpenter	40	0.16	29
Electrician	90	0.36	10
Inspector	990	3.99	24
Machinist	150	0.61	28
Millwright	50	0.20	17
Painter, Maintenance	20	0.08	30
Plumber/Pipefitter	60	0.24	29
Stationary Boiler Firer	10	0.04	30
Stationary Engineer	20	0.08	27
Tool and Die Maker	210	0.85	14
Tester	750	3.03	28
Wirer, Electronic	890	3.59	20
Screen, Stencil Printer/Setter	50	0.20	23
Assembler - C	2,190	8.83	31
All Other Skilled Workers	1,040	4.20	N/A
All Other Semiskilled Workers	2,060	8.31	N/A
All Other Unskilled Workers	1,300	5.24	N/A

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Clerical Occupations	4,220	17.02	N/A
Clerical Supervisor	130	0.52	27
Computer Operator	100	0.40	17
Keypunch Operator	90	0.36	12
All Other Office Machine Operators	100	0.40	N/A
General Clerk	520	2.10	31
Personnel Clerk	30	0.12	25
Secretary	610	2.46	19
Typist	170	0.69	21
All Other Office Clerical Workers	1,370	5.53	N/A
Production Clerk	410	1.65	18
Shipping Packer	130	0.52	31
Shipping/Receiving Clerk	80	0.32	33
Stock Clerk Storeroom	340	1.37	18
All Other Plant Clerical Workers	140	0.56	26
Sales Occupations	20	0.08	N/A
TOTAL	24,790	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
AIRCRAFTS AND PARTS (SIC 372)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,000	11.93	2
Professional Occupations	1,960	23.39	N/A
Aeronautical Engineer	30	0.36	10
Civil Engineer	30	0.36	10
Electrical/Electronic Engineer	30	0.36	7
Industrial Engineer	220	2.63	9
Mechanical Engineer	560	6.68	7
Metal Engineer	10	0.12	10
All Other Engineers	100	1.19	N/A
Mathematician	40	0.48	10
Physicist	10	0.12	10
Systems Analyst, Business	30	0.36	10
Purchasing Agent/Buyer	50	0.60	15
Accountants/Auditors	210	2.51	4
Commercial Artist	30	0.36	5
Writer/Editor	40	0.48	6
Personnel/Labor Relations Specialist	20	0.24	10
Designer	140	1.67	10
All Other Professional Workers	410	4.89	N/A
Technical Occupations	570	6.80	N/A
Computer Programmer	20	0.24	10
Drafter	120	1.43	11
Electrical/Electronic Technician	70	0.84	10
Mechanical Engineering Technician	40	0.48	6
Tool Programmer, Numerical Control	30	0.36	26
Industrial Engineering Technician	210	2.51	10
All Other Engineering Technicians	70	0.84	10
All Other Technicians	10	0.12	10
Service Occupations	70	0.84	N/A
Maintenance and Production Occupations	3,780	45.11	N/A
Maintenance, Mechanic	40	0.48	6
All Other Mechanics and Repairers	50	0.60	10
Electrician	20	0.24	5
Filers, Grinders	120	1.43	5
Inspector	440	5.25	3
Instrument Mechanic	10	0.12	10
Machinist	390	4.65	7
Oiler	10	0.12	10
Plumber/Pipefitter	30	0.36	10
Sheet Metal Worker	280	3.34	5
Tool and Die Maker	120	1.43	3
Drill-Press Operator	50	0.60	28
Grinding Machine Operator	190	2.27	7

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Heat Treater, Annealer	50	0.60	5
Lathe Machine Operator, Metal	280	3.34	11
Machine Tool Operator, Combination	70	0.84	34
Machine Tool Operator, Numerical Control	240	2.86	7
Machine Tool Operator, Tool Room	60	0.72	6
Milling/Planing Machine Operator	150	1.79	12
Tester	160	1.91	10
Punch-Press Setter	130	1.55	10
Welders - B	220	2.63	10
Machine Assemblers - A	110	1.31	10
Machine Assemblers - B	240	2.86	10
All Other Skilled Workers	150	1.79	N/A
All Other Semiskilled Workers	110	1.31	N/A
All Other Unskilled Workers	60	0.72	N/A
Clerical Occupations	980	11.69	N/A
Computer Operator	30	0.36	10
Keypunch Operator	30	0.36	10
Peripheral EDP Equipment Operator	10	0.12	10
All Other Office Machine Operators	20	0.24	16
Stenographer	80	0.95	10
Accounting Clerk	40	0.48	16
General Clerk	50	0.60	11
Procurement Clerk	40	0.48	10
Secretary	230	2.74	3
Typist	40	0.48	6
All Other Office Clerical Workers	70	0.84	N/A
Production Clerk	150	1.79	2
Shipping Packer	40	0.48	10
Shipping/Receiving Clerk	20	0.24	43
Stock Clerk, Storeroom	110	1.31	7
All Other Plant Clerical Workers	20	0.24	10
Sales Occupations	20	0.24	N/A
TOTAL	8,380	100.00	N/A

N/A Relative Error Not Available.

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MEASURING,ANALYZING,AND CONTROLLING INSTRUMENTS; PHOTOGRAPHIC,MEDICAL AND OPTICAL GOODS; WATCHES AND CLOCKS (SIC 38)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	3,890	7.65	11
Professional Occupations	7,890	15.53	N/A
Electrical/Electronic Engineer	1,790	3.52	20
Industrial Engineer	220	0.43	43
Mechanical Engineer	660	1.30	33
Metallurgical Engineer	30	0.06	29
All Other Engineers	1,920	3.78	N/A
Chemist	90	0.18	34
All Other Physical Scientists	330	0.65	N/A
Systems Analyst, EDP	260	0.51	22
Purchasing Agent/Buyer	340	0.67	12
Accountant/Auditor	340	0.67	13
Cost Estimator	260	0.51	14
Writer/Editor	190	0.37	37
Nurse, Professional	50	0.10	13
Personnel and Labor Relations Specialist	220	0.43	9
Designer	320	0.63	39
All Other Professional Workers	870	1.71	N/A
Technical Occupations	4,940	9.72	N/A
Computer Programmer	340	0.67	43
Drafter	750	1.48	12
Electrical/Electronic Technician	1,100	2.16	41
Mechanical Engineering Technician	660	1.30	24
Tool Programmer, Numerical Control	30	0.06	21
Industrial Engineering Technician	30	0.06	43
All Other Engineering Technicians	920	1.81	23
Science Technicians	730	1.44	16
All Other Technicians	380	0.75	29
Service Occupations	940	1.85	N/A
Supervisor, Nonworking Service	70	0.14	38
Janitors, Porters, and Cleaners	570	1.12	9
Guards and Doorkeepers	280	0.55	10
All Other Service Workers	20	0.04	N/A
Maintenance and Production Occupations	25,110	49.41	N/A
Supervisor, Nonworking	1,670	3.29	9
Mechanic, Maintenance	220	0.43	15
All Other Mechanics and Repairers	510	1.00	N/A
Carpenter	80	0.16	20
Electrician	250	0.49	12
Filers/Grinders/Buffers/Polishers	60	0.12	33
Inspector	1,550	3.05	14

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Instrument Mechanic	70	0.14	17
Lens Grinder	340	0.67	32
Machinist	930	1.83	34
Maintenance Repairer, General Utility	150	0.30	17
Helper, Trades	80	0.16	34
Oiler	20	0.04	29
Order Filler	150	0.30	26
Painter, Maintenance	50	0.10	34
Plumber/Pipefitter	130	0.26	18
Production Packager	620	1.22	23
Sewing Machine Operator, Regular Equipment, Nongarment	50	0.10	45
Sheet Metal Worker	30	0.06	50
Stationary Engineer	30	0.06	31
Tool and Die Maker	380	0.75	17
Welder/Flamecutter	310	0.61	29
Chemical Operator, Class A	90	0.18	26
Lathe Operator, Metal	400	0.79	43
Lay-Out Marker, Metal	20	0.04	46
Machine Tool Operator, Combination	850	1.67	25
Machine Tool Operator, Numerical Control	80	0.16	43
Machine Tool Operator, Tool Room	70	0.14	30
Milling/Planing Machine Operator	120	0.24	38
Tester	480	0.94	50
Printer, Production	180	0.35	21
Punch Press Operator, Metal	90	0.18	39
Punch Press Setter, Metal	20	0.04	36
Shear/Slitter Operator, Metal	40	0.08	43
Compression/Injection Molding Machine Operator, Plastics	210	0.41	5
Dip Plater, Non-Electrolytic	80	0.16	27
Chief Operator	180	0.35	23
Power Brake/Bending Machine Operator	30	0.06	43
Instrument Maker, Class A	180	0.35	23
Electro-Mechanical Equipment Assembler	210	0.41	42
Electrical and Electronic Assembler, Class A	450	0.89	40
All Other Assemblers, Class A	680	1.34	N/A
Instrument Assembler, Class B	630	1.24	47
All Other Assemblers, Class B	2,660	5.23	N/A
Assembler, Class C	2,010	3.96	17
All Other Skilled Workers	960	1.89	N/A
All Other Semiskilled Workers	6,260	12.32	N/A
All Other Unskilled Workers	450	0.89	N/A
Clerical Occupations	7,490	14.74	N/A
Clerical Supervisor	220	0.43	39
Bookkeeping/Billing Machine Operator	30	0.06	35
Computer Operator	110	0.22	26
Keypunch Operator	210	0.41	14
Peripheral EDP Equipment Operator	60	0.12	24
All Other Office Machine Operators	90	0.18	N/A

OCCUPATION	EMPLOYMENT Number	Percent	Relative Error Percent
Accounting Clerk	520	1.02	17
Bookkeeper, Hand	160	0.31	28
General Clerk, Office	770	1.52	27
Order Clerk	240	0.47	32
Payroll/Timekeeping Clerk	100	0.20	16
Personnel Clerk	80	0.16	15
Procurement Clerk	100	0.20	35
Receptionist	30	0.06	26
Secretary	1,580	3.11	10
Switchboard Operator	90	0.18	17
Typist	530	1.04	30
All Other Office Clerical Workers	580	1.14	N/A
Production Clerk/Coordinator	530	1.04	28
Shipping Packer	360	0.71	15
Shipping/Receiving Clerk	340	0.67	16
Stock Clerk	530	1.04	25
All Other Plant Clerical Workers	230	0.45	34
Sales Occupations	560	1.10	N/A
Sales Representative	550	1.08	23
All Other Sales Workers	10	0.02	N/A
TOTAL	50,820	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

RANKED OCCUPATIONAL EMPLOYMENT IN MEASURING, ANALYZING, AND CONTROLLING INSTRUMENTS; PHOTOGRAPHIC, MEDICAL, AND OPTICAL GOODS; AND WATCHES AND CLOCKS INDUSTRIES

SIC 38

	OCCUPATION	EMPLOYMENT
1.	All Other Semiskilled Workers	6,260
2.	Managers and Officers	3,890
3.	All Other Assemblers, Class - B	2,660
4.	Assembler, Class - C	2,010
5.	All Other Engineers	1,920
6.	Electrical/Electronic Engineer	1,790
7.	Supervisor, Nonworking	1,670
8.	Secretary	1,580
9.	Inspector	1,550
10.	Electrical/Electronic Technician	1,100
		24,430

These 10 occupations make up 48% of total industry employment.

OCCUPATIONS OF EMPLOYEES
MEASURING AND CONTROLLING INSTRUMENTS (SIC 382)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,180	7.08	36
Professional Occupations	3,060	18.36	N/A
Electrical/Electronic Engineer	860	5.16	30
All Other Engineers	1,010	6.06	N/A
Systems Analyst, E.D.P.	110	0.66	49
Purchasing Agent/Buyer	100	0.60	35
Accountants/Auditors	110	0.66	21
Nurse, Professional	20	0.12	21
Personnel/Labor Relations Specialist	60	0.36	27
All Other Professional Workers	790	4.74	N/A
Technical Occupations	1,510	9.06	N/A
Drafter	280	1.68	25
All Other Technicians	1,230	7.38	N/A
Service Occupations	340	2.04	N/A
Janitors, Porters, and Cleaners	230	1.38	20
Guards and Doorkeepers	70	0.42	25
All Other Service Workers	40	0.24	N/A
Maintenance and Production Occupations	7,490	44.93	N/A
Supervisor, Nonworking	400	2.40	30
Truck Drivers	20	0.12	34
Inspectors	440	2.64	34
Tool and Die Maker	150	0.90	33
Welders and Flamecutters	110	0.66	49
Grinding Machine Operator, Metal	30	0.18	47
Machine Tool Operator, Combination	370	2.22	41
Painter,Production	70	0.42	41
All Other Assemblers - B	2,310	13.86	N/A
All OtherSkilled Workers	1,480	8.88	N/A
All Other Semiskilled Workers	1,850	11.10	N/A
All Other Unskilled Workers	260	1.56	N/A
Clerical Occupations	2,990	17.94	N/A
Keypunch Operator	80	0.48	30
Peripheral E.D.P. Equipment Operator	30	0.18	48
All Other Office Machine Operator	100	0.60	N/A
Accounting Clerk	140	0.84	40
Payroll/Timekeeping Clerk	40	0.24	35
Personnel Clerk	20	0.12	41
Secretary	450	2.70	31
Switchboard Operator	40	0.24	32
Typist	350	2.10	45
All Other Office Clerical Workers	880	5.28	N/A
Shipping Packer	60	0.36	47

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Shipping/Receiving Clerk	120	0.72	38
Stock Clerk, Storeroom	310	1.86	42
All Other Plant Clerical Workers	370	2.22	N/A
Sales Occupations	110	0.66	N/A
TOTAL	16,670	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
OPHTHALMIC GOODS (SIC 385)

Reference Date June 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	340	5.84	7
Professional Occupations	280	4.81	N/A
Industrial Engineer	20	0.34	19
Mechanical Engineer	70	1.20	1
All Other Engineers	30	0.52	N/A
Physicist	10	0.17	16
Purchasing Agent/Buyer	20	0.34	10
Accountants/Auditors	20	0.34	12
Cost Estimator	10	0.17	1
Personnel/Labor Relations Specialist	10	0.17	1
Designer	20	0.34	29
All Other Professional Workers	70	1.20	N/A
Technical Occupations	160	2.75	N/A
Computer Programmer	20	0.34	8
Drafter	20	0.34	11
Mechanical Engineering Technician	30	0.52	1
All Other Engineering Technicians	50	0.86	8
All Other Technicians	40	0.69	N/A
Service Occupations	120	2.06	N/A
Janitors, Porters, and Cleaners	70	1.20	8
Guards and Doorkeepers	40	0.69	23
All Other Service Workers	10	0.17	N/A
Maintenance and Production Occupations	4,000	68.73	N/A
Supervisor, Nonworking	170	2.92	12
Mechanic, Maintenance	50	0.86	1
Carpenter	10	0.17	1
Electrician	20	0.34	9
Filers, Grinders	30	0.52	30
Inspector	320	5.50	14
Lens Grinder	250	4.30	42
Machinist	90	1.55	12
Maintenance Repairer,General Utility	30	0.52	20
Order Filler	50	0.86	36
Production Packager	40	0.69	43
Stationary Engineer	10	0.17	19
Tool and Die Maker	70	1.20	1
Machine Tool Operator, Combination	20	0.34	20
Machine Tool Operator, Toolroom	30	0.52	15
Painter, Production	20	0.34	1
Compression/Injection Molder	120	2.06	1
Electrical and Electronic Assembler - B	10	0.17	1
Assembler - C	140	2.41	30
All Other Skilled Workers	340	5.84	N/A

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
All Other Semiskilled Workers	2,020	34.71	N/A
All Other Unskilled Workers	160	2.75	N/A
Clerical Occupations	870	14.95	N/A
Clerical Supervisor	40	0.69	32
Computer Operator	20	0.34	1
Keypunch Operator	50	0.86	3
Peripheral E.D.P. Equipment Operator	30	0.52	1
All Other Office Machine Operators	20	0.34	N/A
Accounting Clerk	110	1.89	13
General Clerk	30	0.52	48
Order Clerk	50	0.86	19
Payroll/Timekeeping Clerk	30	0.52	7
Personnel Clerk	10	0.17	15
Procurement Clerk	10	0.17	16
Secretary	110	1.89	7
Switchboard Operator	10	0.17	23
All Other Office Clerical Workers	120	2.06	N/A
Production Clerk	30	0.52	7
Shipping Packer	20	0.34	32
Shipping/Receiving Clerk	80	1.37	32
Stock Clerk, Storeroom	90	1.55	2
All Other Plant Clerical Workers	10	0.17	N/A
Sales Occupations	50	0.86	N/A
TOTAL	5,820	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
PHOTOGRAPHIC EQUIPMENT AND SUPPLIES (SIC 386)

Reference Date June 1977

OCCUPATION	EMPLOYMENT Number	EMPLOYMENT Percent	EMPLOYMENT Relative Error Percent
Managers and Officers	850	6.42	11
Professional Occupations	2,170	16.38	N/A
Industrial Engineer	20	0.15	21
All Other Engineers	1,080	8.15	N/A
Physicist	10	0.08	29
All Other Physical Scientists	210	1.58	N/A
Systems Analyst,E.D.P.	80	0.60	24
Purchasing Agent/Buyer	80	0.60	13
Accountant/Auditor	90	0.68	28
Cost Estimator	140	1.06	17
Writer/Editor	20	0.15	5
Nurse, Professional	10	0.08	13
Personnel/Labor Relations Specialist	110	0.83	9
Designer	90	0.68	20
All Other Professional Workers	230	1.74	N/A
Technical Occupations	1,670	12.60	N/A
Computer Programmer	50	0.38	31
Drafter	200	1.51	15
Electrical and Electronic Technician	30	0.23	32
Mechanical Engineering Technician	310	2.34	25
Tool Programmer, Numerical Control	20	0.15	25
All Other Engineering Technicians	390	2.94	N/A
Science Technicians	550	4.15	18
All Other Technicians	120	0.91	N/A
Service Occupations	300	2.26	N/A
Supervisor, Nonworking,Service	20	0.15	30
Janitors, Porters, Cleaners	130	0.98	15
Guards and Doorkeepers	150	1.13	9
Maintenance and Production Occupations	6,740	50.87	N/A
Supervisor, Nonworking	690	5.21	9
Mechanic,Maintenance	70	0.53	21
All Other Mechanics and Repairers	460	3.47	15
Carpenter	40	0.30	15
Electrician	160	1.21	14
Inspector	420	3.17	32
Instrument Mechanic	50	0.38	14
Machinist	110	0.83	11
Maintenance Repairers, General Utility	10	0.08	11
Helper, Trades	40	0.30	25
Oiler	10	0.08	17
Painter, Maintenance	10	0.08	16
Plumber/Pipefitter	90	0.68	20
Production Packager	310	2.34	29

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Stationary Engineer	20	0.15	45
Tool and Die Maker	50	0.38	13
Chemical Operator - A	70	0.53	27
Shear/Slitter Operator, Metal	40	0.30	43
Dip Plater, Non-Electrolytic	50	0.38	23
Chief Operator	170	1.28	23
Instrument Maker - A	100	0.75	25
All Other Assemblers - A	190	1.43	21
All Other Skilled Workers	220	1.66	N/A
All Other Semiskilled Workers	3,160	23.85	N/A
All Other Unskilled Workers	200	1.51	N/A
Clerical Occupations	1,480	11.17	N/A
Keypunch Operator	20	0.15	41
General Clerk	340	2.57	9
Order Clerk	40	0.30	49
Personnel Clerk	30	0.23	26
Secretary	510	3.85	9
Switchboard Operator	30	0.23	32
All Other Office Clerical Workers	130	0.98	N/A
Production Clerk	100	0.75	18
Shipping Packer	160	1.21	23
Shipping/Receiving Clerk	20	0.15	38
All Other Plant Clerical Workers	100	0.75	N/A
Sales Occupations	40	0.30	N/A
TOTAL	13,250	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
WATCHES, CLOCKS, AND WATCHCASES (SIC 387)

Reference Date June 1977

OCCUPATION	EMPLOYMENT Number	Percent	Relative Error Percent
Managers and Officers	60	3.47	N/A
Professional Occupations	110	6.36	N/A
Industrial Engineer	20	1.16	4
Mechanical Engineer	20	1.16	18
All Other Engineers	20	1.16	N/A
Purchasing Agent/Buyer	10	0.58	10
Accountants/Auditors	10	0.58	26
All Other Professional Workers	30	1.73	N/A
Technical Occupations	20	1.16	N/A
Service Occupations	40	2.31	N/A
Janitors, Porters, and Cleaners	20	1.16	8
All Other Service Workers	20	1.16	N/A
Maintenance and Production Occupations	1,300	75.14	N/A
Supervisor, Nonworking	50	2.89	14
All Other Mechanics and Repairers	10	0.58	N/A
Inspector	70	4.05	8
Machinist	40	2.31	9
Tool and Die Maker	50	2.89	5
Lathe Machine Operator, Metal	50	2.89	6
Machine Tool Operator, Combination	60	3.47	49
Machine Tool Setter, Metal	40	2.31	10
Painter, Production	50	2.89	32
Punch Press Operator, Metal	40	2.31	22
Punch Press Setter, Metal	20	1.16	37
Compression/Injection Molder	60	3.47	5
Assembler - C	510	29.48	11
All Other Skilled Workers	30	1.73	N/A
All Other Semiskilled Workers	190	10.98	N/A
All Other Unskilled Workers	30	1.73	N/A
Clerical Occupations	190	10.98	N/A
Clerical Supervisor	10	0.58	47
Accounting Clerk	20	1.16	19
General Clerk	10	0.58	13
Secretary	20	1.16	16
All Other Office Clerical Workers	40	2.31	N/A

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Production Clerk	40	2.31	4
Shipping Packer	30	1.73	4
Stock Clerk, Storeroom	20	1.16	20
Sales Occupations	10	0.58	N/A
TOTAL	1,730	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS MANUFACTURING INDUSTRIES (SIC 39)

Reference Date June 1977

OCCUPATION	EMPLOYMENT Number	EMPLOYMENT Percent	EMPLOYMENT Relative Error Percent
Managers and Officers	1,740	6.90	8
Professional Occupations	690	2.74	N/A
Industrial Engineer	70	0.28	14
Mechanical Engineer	60	0.24	18
Chemist	10	0.04	18
Systems Analyst, EDP	30	0.12	17
Purchasing Agent/Buyer	110	0.44	12
Accountant/Auditor	130	0.52	13
Nurse, Professional	10	0.04	23
Personnel/Labor Relations Specialist	40	0.16	18
Designer	190	0.75	17
All Other Professional Workers	40	0.16	N/A
Technical Occupations	210	0.83	N/A
Computer Programmer	60	0.24	12
Drafter	20	0.08	31
Engineering Technicians	110	0.44	N/A
Science Technicians	10	0.04	19
All Other Technicians	10	0.04	N/A
Service Occupations	470	1.86	N/A
Supervisor, Nonworking Service	60	0.24	17
Janitors, Porters, and Cleaners	240	0.95	10
Guards and Doorkeepers	70	0.28	19
Food Service Workers	30	0.12	31
All Other Service Workers	70	0.28	19
Maintenance and Production Occupations	17,030	67.55	N/A
Supervisor, Nonworking	670	2.66	7
Mechanics and Repairers	120	0.48	N/A
Truck Driver	50	0.20	19
Cabinetmaker	50	0.20	29
Delivery/Route Worker	20	0.08	31
Electrician	70	0.28	15
Filers/Grinders/Buffers/Polishers	450	1.79	17
Inspector	360	1.43	13
Machinist	140	0.56	20
Maintenance Repairer, General Utility	160	0.63	24
Helper, Trades	60	0.24	34
Millwright	50	0.20	11
Order Filler	220	0.87	17
Electroplater	130	0.52	10
Plumber/Pipefitter	20	0.08	19
Press Operator	90	0.36	25
Production Packager	1,150	4.56	22
Tool and Die Maker	230	0.91	11

SIC 39 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Welder/Flamecutter	180	0.71	33
Bench Hand, Jewelry	910	3.61	18
Caster	70	0.28	23
Chaser, Jewelry or Silverware	40	0.16	22
Etcher/Engraver	110	0.44	18
Grinding Machine Operator, Metal	470	1.86	21
Heat Treater/Annealer	30	0.12	19
Lathe Operator, Metal	40	0.16	33
Machine Tool Operator, Numerical Control	20	0.08	72
Machine Tool Operator, Tool Room	40	0.16	22
Machine Tool Setter, Metal	100	0.40	19
Metal Mold Maker	30	0.12	19
Plater Helper	190	0.75	23
Roller	40	0.16	14
Rubber Mold Maker	30	0.12	20
Spinner	60	0.24	16
Stone Setter	140	0.56	22
Vulcanizer, Rubber Plate	50	0.20	18
Painter, Production	160	0.63	31
Punch Press Operator, Metal	410	1.63	22
Punch Press Setter, Metal	90	0.36	26
Dip Plater, Non-Electrolytic	20	0.08	34
Assembler, Class C	2,350	9.32	13
Decorator, Hand	120	0.48	21
Vacum Plastic Forming Machine Operator	10	0.04	18
All Other Skilled Workers	1,210	4.80	N/A
All Other Semiskilled Workers	3,510	13.92	N/A
All Other Unskilled Workers	2,560	10.15	15
Clerical Occupations	4,090	16.22	N/A
Clerical Supervisor	13	0.52	15
Bookkeeping/Billing Machine Operator	90	0.36	29
Computer Operator	80	0.32	12
Keypunch Operator	140	0.56	14
All Other Office Machine Operators	50	0.20	N/A
Stenographer	40	0.16	27
Accounting Clerk	220	0.87	10
Bookkeeper, Hand	150	0.60	18
File Clerk	100	0.40	16
General Clerk, Office	540	2.14	10
Order Clerk	190	0.75	17
Payroll/Timekeeping Clerk	180	0.71	11
Personnel Clerk	50	0.20	12
Procurement Clerk	70	0.28	14
Receptionist	10	0.04	30
Secretary	340	1.35	16
Statistical Clerk	40	0.16	28
Switchboard Operator	10	0.04	27
Switchboard Operator/Receptionist	70	0.28	16
Typist	140	0.56	13

OCCUPATION	EMPLOYMENT Number	EMPLOYMENT Percent	EMPLOYMENT Relative Error Percent
All Other Office Clerical Workers	90	0.36	25
Production Clerk/Coordinator	300	1.19	8
Shipping Packer	560	2.22	12
Shipping/Receiving Clerk	230	0.91	20
Stock Clerk	180	0.71	13
All Other Plant Clerical Workers	90	0.36	25
Sales Occupations	980	3.89	N/A
Sales Representative	930	3.69	10
Sales Clerk	50	0.20	33
TOTAL	25,210	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

RANKED OCCUPATIONAL EMPLOYMENT IN MISCELLANEOUS MANUFACTURING INDUSTRIES

SIC 39

	OCCUPATION	EMPLOYMENT
1.	All Other Semiskilled Workers	3,510
2.	All Other Undkilled Workers	2,560
3.	Assembler, Class - C	2,350
4.	Managers and Officers	1,740
5.	All Other Skilled Workers	1,210
6.	Production Packager	1,150
7.	Sales Representatives	930
8.	Bench Hand, Jewelry	910
9.	Supervisor, Nonworking	670
10.	Shipping Packer	560
		15,590

These 10 occupations make up 62% of total industry employment.

OCCUPATIONS OF EMPLOYEES
JEWELRY, SILVERWARE, AND PLATED WARE (SIC 391)

Reference Date May, 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	450	5.59	15
Professional Occupations	150	1.86	N/A
Industrial Engineer	20	0.25	11
All Other Engineers	10	0.12	N/A
Purchasing Agent/Buyer	20	0.25	6
Accountants/Auditors	30	0.37	14
Personnel/Labor Relations Specialist	10	0.12	10
Designer	40	0.50	9
All Other Professional Workers	20	0.25	N/A
Technical Occupations	60	0.75	N/A
Computer Programmer	20	0.25	15
All Other Engineering Technicians	40	0.50	N/A
Service Occupations	230	2.86	N/A
Supervisor, Nonworking Service	50	0.62	5
Janitors, Porters, and Cleaners	120	1.49	14
Guards and Doorkeepers	50	0.62	17
Food Service Workers	10	0.12	30
Maintenance and Production Occupations	5,190	64.47	N/A
Supervisor, Nonworking	300	3.73	5
Mechanics and Repairers	10	0.12	N/A
Truck Driver	20	0.25	17
Carpenter	30	0.37	9
Electrician	20	0.25	15
Filers, Grinders	340	4.22	16
Inspector	190	2.36	11
Jeweler/Silversmith	30	0.37	49
Machinist	60	0.75	13
Maintenance Repairer, General Utility	70	0.87	29
Helper, Trades	10	0.12	27
Order Filler	60	0.75	21
Electroplater	80	0.99	13
Plumber/Pipefitter	10	0.12	26
Press Operator	20	0.25	7
Production Packager	310	3.85	18
Tool and Die Maker	140	1.74	13
Welders and Flamecutters	100	1.24	38
Bench Hand, Jewelry	390	4.84	19
Caster	60	0.75	25
Chaser, Jewelry/Silver	40	0.50	22
Etcher/Engraver	80	0.99	21
Grinding Machine Operator, Metal	300	3.73	27
Heat Treater, Annealer	10	0.12	14
Lathe Machine Operator, Metal	20	0.25	40

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Machine Tool Operator, Tool Room	20	0.25	34
Metal Mold Maker	10	0.12	6
Plater Helper	160	1.99	23
Roller	40	0.50	14
Spinner	60	0.75	16
Stone Setter	120	1.49	24
Wax Pattern Workers	30	0.37	49
Painter, Production	20	0.25	21
Punch Press Operator, Metal	190	2.36	17
Punch Press Setter, Metal	30	0.37	24
Assembler - C	110	1.37	45
Decorator, Hand	90	1.12	16
All Other Skilled Workers	220	2.73	N/A
All Other Semiskilled Workers	520	6.46	N/A
All Other Unskilled Workers	870	10.81	N/A
Clerical Occupations	1,640	20.37	N/A
Clerical Supervisor	50	0.62	13
Bookkeeping/Billing Machine Operator	40	0.50	15
Computer Operator	30	0.37	11
Keypunch Operator	60	0.75	7
All Other Office Machine Operators	10	0.12	N/A
Stenographer	20	0.25	9
Accounting Clerk	100	1.24	9
Bookkeeper, Hand	40	0.50	21
File Clerk	40	0.50	9
General Clerk	220	2.73	16
Order Clerk	70	0.87	21
Payroll/Timekeeping Clerk	70	0.87	14
Personnel Clerk	20	0.25	17
Procurement Clerk	30	0.37	14
Secretary	130	1.61	9
Statistical Clerk	20	0.25	20
Switchboard Operator/Receptionist	20	0.25	7
Typist	60	0.75	19
All Other Office Clerical Workers	40	0.50	N/A
Production Clerk	180	2.24	6
Shipping Packer	210	2.61	20
Shipping/Receiving Clerk	40	0.50	13
Stock Clerk, Storeroom	70	0.87	15
All Other Plant Clerical Workers	70	0.87	30
Sales Occupations	330	4.10	N/A
Sales Representatives	320	3.98	10
Sales Clerks	10	0.12	34
TOTAL	8,050	100.00	N/A

N/A Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
TOYS AND SPORTING GOODS (SIC 394)

Reference Date May 1977

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	510	7.13	15
Professional Occupations	220	3.08	N/A
Industrial Engineer	20	0.28	28
Mechanical Engineer	30	0.42	16
All Other Engineers	20	0.28	6
Systems Analyst E.D.P.	20	0.28	2
Purchasing Agent/Buyer	40	0.56	18
Accountants/Auditors	50	0.70	22
Personnel/Labor Relations Specialist	10	0.14	43
All Other Professional Occupations	10	0.14	N/A
Technical Occupations	60	0.84	N/A
Computer Programmer	20	0.28	18
Engineering Technicians	30	0.42	N/A
Science Technicians	10	0.14	19
Service Occupations	150	2.10	N/A
Janitors, Porters, and Cleaners	40	0.56	29
Guards and Doorkeepers	20	0.28	47
All Other Service Workers	90	1.26	N/A
Maintenance and Production Occupations	4,890	68.39	N/A
Supervisor, Nonworking	140	1.96	20
Mechanics and Repairers	40	0.56	N/A
Truck Driver	20	0.28	40
Electrician	20	0.28	21
Filers, Grinders	20	0.28	18
Industrial Truck Operator	70	0.98	33
Inspector	50	0.70	45
Machinist	20	0.28	20
Millwright	40	0.56	12
Order Filler	60	0.84	21
Press Operator	60	0.84	37
Grinding Machine Operator, Metal	10	0.14	19
Machine Tool Setter, Metal	60	0.84	17
Vulcanizer, Rubber Plate	30	0.42	19
Compression/Injection Molder	260	3.64	37
Assembler - A	30	0.42	19
Assembler - B	60	0.84	19
Assembler - C	1,660	23.22	14
Vacuum Plastic Forming Machine Operator	10	0.14	20
All Other Skilled Workers	80	1.12	N/A
All Other Semiskilled Workers	1,340	18.74	N/A
All Other Unskilled Workers	810	11.33	N/A

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Clerical Occupations	1,060	14.83	N/A
Clerical Supervisor	40	0.56	35
Bookkeeping/Billing Machine Operator	10	0.14	23
Computer Operator	30	0.42	26
Keypunch Operator	40	0.56	27
All Other Office Machine Operators	30	0.42	N/A
Accounting Clerk	60	0.84	29
File Clerk	40	0.56	32
General Clerk	170	2.38	15
Order Clerk	70	0.98	34
Payroll/Timekeeping Clerk	60	0.84	17
Procurement Clerk	20	0.28	40
Switchboard Operator/Receptionist	20	0.28	38
Typist	50	0.70	22
All Other Office Clerical Workers	180	2.52	N/A
Production Clerk	20	0.28	18
Shipping Packer	130	1.82	31
Shipping/Receiving Clerk	60	0.84	40
All Other Plant Clerical Workers	30	0.42	N/A
Sales Occupations	260	3.64	N/A
TOTAL	7,150	100.00	N/A

N/A Relative Error Not Available

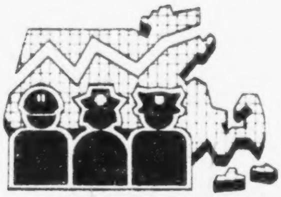
Note: May not add to totals due to rounding.

Occupational Profiles available from the Massachusetts Division of Employment Security.

1971	Manufacturing
1973	Non-Manufacturing
1973	Wholesale and Retail Trade
1974	Manufacturing
1975	Selected Federal - State and Local Government
1976	Wholesale and Retail Trade
1976	Trucking, Warehousing and Air Transportation

Write to:
Occupation/Industry Research Department
Massachusetts Division of Employment Security
Charles F. Hurley Building
Government Center,
Boston, Ma 02114

OCCUPATIONAL PROFILE OF SELECTED NON-MANUFACTURING INDUSTRIES IN MASSACHUSETTS 1978



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Job Market Research   Massachusetts Division of Employment Security

THE COMMONWEALTH OF MASSACHUSETTS
DIVISION OF EMPLOYMENT SECURITY
Charles F. Hurley Building
Government Center, Boston, Ma 02114

AN OCCUPATIONAL PROFILE
OF
SELECTED NON-MANUFACTURING INDUSTRIES
IN MASSACHUSETTS

1978
Report Number 9

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INTRODUCTION

The Occupational Employment Statistics Program is part of a Federal-State cooperative program involving State Employment Security Agencies as well as the Employment and Training Administration and the Bureau of Labor Statistics. It was designed to meet the needs of economists, employment specialists, educators and others for current data on employment by occupation and projected data on employment by occupation and industry. The information obtained from this program will be used as input in constructing industry-occupation matrices that will provide the data base for projecting future manpower requirements, emphasized in the Comprehensive Employment and Training Act of 1973 and other employment and educational legislation.

This publication is the ninth in a planned series of documents on current occupational profiles of Massachusetts industries. Other occupational reports available from this division are listed on the last page.

Currently data is being collected for Wholesale and Retail Trade, Regulated Industries, State and Local Government and for the first time,all levels of Education.